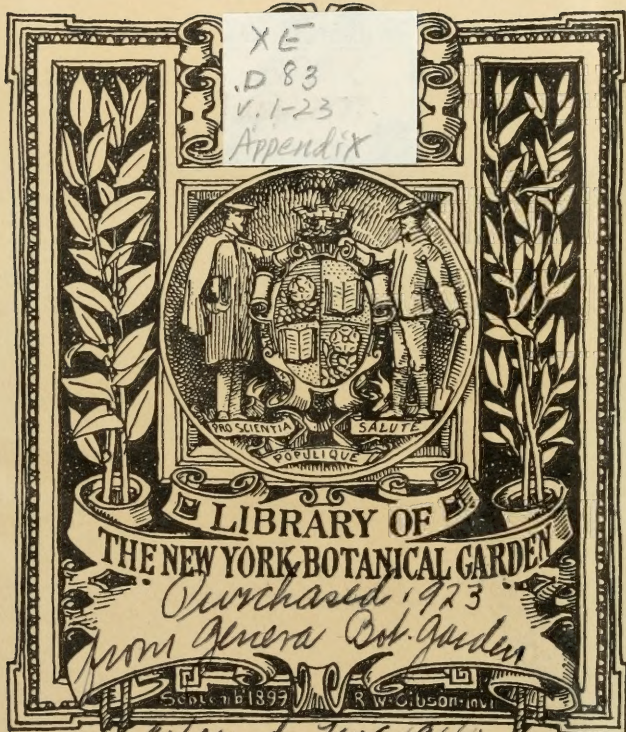


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Appendix



APPENDIX
TO THE FIRST TWENTY-THREE VOLUMES
OF
EDWARDS'S
BOTANICAL REGISTER:
CONSISTING OF A COMPLETE
ALPHABETICAL AND SYSTEMATICAL INDEX
OF NAMES, SYNONYMES, AND MATTER,
ADJUSTED TO THE PRESENT STATE OF SYSTEMATICAL BOTANY;
TOGETHER WITH
A SKETCH OF THE VEGETATION
OF THE
SWAN RIVER COLONY.

WITH NINE COLOURED PLATES,
CONTAINING EIGHTEEN COLOURED FIGURES OF PLANTS,
AND WITH FOUR WOOD-CUTS.

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By JOHN LINDLEY, Ph. D. F.R.S. AND L.S.

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&c. &c. &c.

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P R E F A C E.

MUCH of the value of all works depends upon their having a good index; if this is true as a general rule, it is much more so with regard to books of great extent, involving multitudes of independent facts, and especially in the case of such a publication as the Botanical Register, of which twenty-three volumes have appeared without any classified catalogue of their contents. It is true, that alphabetical lists of the plants figured in those volumes have been already published, but one list stopped with the 13th volume, and the other applies only to the 10 succeeding ones; they are moreover merely alphabetical, while a systematical index is quite as necessary, and they contain no references to the numerous synonymes ascertained during the progress of the publication. These considerations have led the editor to undertake the laborious task of preparing a new and complete index, both classified and alphabetical, of the entire work, including not merely the names of the plants actually figured, together with their synonymes, but references to all the genera and species described only in the notes, and to such systematical and physiological observations as are to be found scattered through the pages. In doing this, the opportunity has been taken of revising the whole of the nomenclature, and of introducing such changes and corrections as the rapid progress of Systematical Botany has rendered necessary. The systematical index has thus become a silent commentary upon the whole 23 volumes, and is an

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indispensable adjunct to the work itself; for it will serve to shew the unlearned how far innovations in nomenclature are fit to be adopted, and which of the alterations that have from time to time been actually admitted into the work, appear, upon deliberate consideration, to deserve perpetuation. The number of errors requiring correction is not considerable, but it will be found, by a reference to the index, that they have been made unsparingly, and without the least regard to personal considerations.

It has appeared to the Editor desirable to take advantage of this opportunity, for publishing at once a detailed account of the vegetation of one of the most interesting of the British Colonial possessions, from which multitudes of seeds are now continually arriving, and of which it is absolutely necessary for the lover of gardens to have some knowledge, if he would avoid the vexation of buying plants of no value under high sounding and imposing names. It is probable that for some years to come, few species deserving cultivation, will be received from Swan River, beyond such as are noticed in this Appendix, which will therefore, it is hoped, form a useful guide to purchasers in this country, and enable those who reside in the colony, or who have friends there, to judge on the one hand what to send home, and on the other, what to ask their correspondents to collect.

The utility of such a work to those who wish to become acquainted with the Botany of the Swan River Colony, for colonial or mercantile purposes, does not require to be insisted on.

A SKETCH OF THE VEGETATION

OF THE

SWAN RIVER COLONY.

THE frequent arrival of seeds from this Colony, the excellent state in which they are received, and the facility with which further supplies can be procured, appear to render some Botanical account of this remarkable country a desirable appendage to a work which, like the Botanical Register, forms an original record of new plants introduced, or worthy of introduction, to our Gardens. A publication of the more remarkable or beautiful species will tend to prevent double names, which would otherwise be likely to find their way into collections, in consequence of species being named by different Botanists independently of each other; and this is in itself an object, the attainment of which is of considerable importance. Moreover the purchasers of plants will often be able, by a reference to this sketch, to ascertain, by the names under which Swan River plants are offered for sale, whether particular species are worth possession, either for the sake of their beauty or singularity.

The only systematical account of the Swan River Flora which has yet appeared is Baron Hugel's Enumeration,* but as nothing has been printed of that valuable work, beyond a single number, published in 1837, it is to be feared that we are not likely to see a continuation of it. There are however several scattered notices of Swan River plants by Dr. Endlicher,† one of the principal contributors to the Enumeration, and occasional descriptions have appeared in the

* *Enumeratio plantarum quas in N. Hollandiæ ora austro-occidentali ad fluvium Cygnorum et in sinu Regio Georgii collegit Carolus Liber Baro de Hugel.* Vindob. 1837. 8vo. pp. 83.

† *Novarum stirpium decades, editæ a Museo Cæsareo Palatino Vindobonensi.* Ni. 1-4. Maii, 1839. 8vo.

Stirpium Australasicarum herbarii Hugeliani Decades tres. Vindob. Dec. 1838. 4to.

Botanical Register and Botanical Magazine; some of the Proteaceæ have also been described in Brown's Supplement.* If to these sources of information we add a short notice of the vegetation of the country by Dr. Brown,† and a similar paper by the late Mr. Charles Frazer,‡ there is little further to notice concerning the published accounts of the Botany of this part of the world.

The materials from which the following sketch has been drawn up are the foregoing documents, and an herbarium of about 1000 species, formed by the communications of Mr. James Drummond, now resident in the Colony, Captain James Mangles, R.N., R. Mangles, Esq., Mr. Toward, Gardener to Her Royal Highness the Duchess of Gloucester, and N. B. Ward, Esq. of Wellclose Square, to all whom I beg to express my thanks for the assistance they have afforded me. Some information regarding the climate and soil has also been derived from papers in the Journal of the Geographical Society, and from a memoir upon Western Australia by Dr. Milligan, which was published in the Madras Journal for October 1837.

The Swan River Colony is stationed on the South-west coast of New Holland, about two degrees nearer the tropic than Sydney, on the opposite coast, the mouth of the river being nearly in 32° S. lat., whence it runs gradually in a north-easterly direction. The Colony itself is situated upon both sides of the river, and extends as far south as the Murray in lat. 32°. 33'. According to Dr. Milligan the entire area of the Colony is about 50 miles by 30; but there is no evidence to shew whether all the plants hereafter to be noticed were collected within those narrow limits.

The country is described as being usually of the open forest description, consisting of undulating plains, covered with a great profusion of plants; three-fourths of the trees belonging to the genus *Eucalyptus*. It is broken by the

* *Supplementum primum Prodromi Floræ N. Holl.* Lond. 1830. 8vo.

† *General View of the Botany of the Vicinity of Swan River*; in Journ. of R. Geogr. Soc. I. 17. 1832.

‡ *Remarks on the Botany, &c. of the Banks of the Swan River, Isle of Buache, Baie Géographe and Cape Naturaliste*; in Hooker's Botanical Miscellany, I. 221. 1830.

limestone mountains of the Darling range, which rise about 2000 feet above the sea, and are covered with evergreen trees.

Dr. Milligan observes, that "the soil is of three different kinds—1st, sandy—2nd, alluvial—3rd, red loam; the first is found near the coast, and, though unpromising in appearance, trees, shrubs, and grasses grow on it abundantly, and with the assistance of manure excellent esculent vegetables are obtained from it, as the valuable gardens in the farms of Perth and Freemantle sufficiently testify. The second, or alluvial, is in extensive flats, and produces admirable crops of wheat, barley, oats, &c. without any assistance from manure. The third, or red loam, which is met with on the high ground on the banks of the rivers, produces the same crops as the alluvial, but requires the assistance of manure. There is a great deal of subterraneous moisture, which appears to be retained by a sub-soil of clay, which is to be met with at an average depth of five or six feet."

Mr. Frazer made the same remark as to the abundance of water near the surface. He says that he was very much astonished at the beautiful dark-green and vigorous appearance of the trees, considering that the season had been unusually dry; but he found the cause to depend upon the great quantity of springs with which the country abounds. On penetrating two feet into the earth he found the soil perfectly moist, and he felt confident that if he had penetrated a foot deeper he should have found water.

Concerning the climate, which Mr. Frazer describes as "the most delightful he ever experienced," we have some good information from Dr. Milligan. The hottest months are December, January, and February; the greatest heat observed in four years was 106° Fahr. in January, 1831, and the least was 33° in July of the same year. The mean of the hottest month was 78°, and of the coldest 54°.84. Between nine and ten inches of rain fell in July, 1830, and June, 1833, while in January there was less than an inch; the summer months being hot and dry, the winter very wet and comparatively cold; the whole amount of rain that fell in 1830 was 32.142 inches, and, in 1833, 26.925 inches.

Among the introduced plants we are informed of the following facts. Along the banks of the rivers may be seen fields of wheat, barley, oats, peas, potatoes, turnips, pump-

kins, Indian wheat, &c. intermixed with fine pasture land. The sandy soil is covered with coarse herbage, on which cattle thrive remarkably well; on the good soil, about sixteen kinds of grasses are met with, amongst which *anthistiria australis*, the kangaroo grass, is conspicuous. The gardens furnish most kinds of edible vegetables in great abundance; some of which may be obtained at all seasons. Amongst these are cabbages, endive, beet, parsley, cresses, leeks, onions, radishes, carrots, knol-kohl, parsnips, turnips, artichokes, vegetable marrow, and cauliflower; also cucumbers, pumpkins, water cresses, tomatos, capsicums; with musk melon, rock melon, and water melon, in great plenty and perfection. The fruits now thriving are the grape, fig, peach, almond, apple, pear, strawberry, sloe, plum (several varieties), olive, the common and white mulberry, pine apple, plantain, sugar cane, Cape gooseberry; besides which several ripen, which, in colder countries, never come to perfection: such as lemons, citrons, and oranges. From all which data we may conclude that the climate of Swan River is like that of the South of Italy; and that while any of the native plants may be expected to thrive in the open air in England during the summer, none are likely to bear our winters except the mountain plants, and those only in the South of England.

The more conspicuous plants which greatly contribute to give a character to the landscape are, according to Brown, *Kingia australis*, a species of *Xanthorrhæa*, a *Zamia* nearly allied to and perhaps not distinct from *Z. spiralis* of the East coast, although it is said frequently to attain the height of thirty feet; a species of *Callitris*; one or two of *Casuarina*; an *Exocarpus*, probably not different from *E. cupressiformis*; and *Nuytsia floribunda*. The latter (Tab. IV.), which bears a profusion of yellow flowers, and is said to attain the stature of a small Orange tree, is a most curious instance of a plant, belonging to the parasitical order Loranthaceæ, growing in the ground. The *Xanthorrhæa* above mentioned, is described by Frazer as being associated with gigantic specimens of a *Banksia* he calls *grandis*, and, with *Zamia spiralis*, thirty feet high, which it rivals in dimensions, forming groups that impart to some places a character perfectly tropical.

The natural orders which most abound in the Colony are chiefly composed of species peculiar to this part of

Australia; the richest in species are *Myrtaceæ*, especially the curious and beautiful tribe of *Chamelaucieæ*, *Fabaceæ* or *Leguminosæ*, *Rutaceæ*, *Lasiopetaleæ*, *Droseraceæ*, *Pittosporaceæ*, *Compositæ*, *Epacridaceæ*, *Goodeniaceæ*, *Stylidiaceæ*, *Proteaceæ*, *Hæmodoraceæ*, and *Orchidaceæ*; concerning each of which it is necessary to offer some special observations.

MYRTACEÆ.

Of this extensive order, of which the Australian forms are so numerous and very peculiar, the Colony contains a large number of species, among which the *Chamelaucieæ* are extremely interesting. These chiefly consist of bushes, with small heath-like leaves, and white, yellow, or purple flowers, of great brilliancy, more or less collected into heads. Although scarcely noticed in the reports of either Brown or Frazer, they form a most striking object in the vegetation. Of the genus *Calytrix* alone there are ten species in my collection; the three most remarkable of which are *C. flavescens*, Cunn., *C. aurea*,¹ (Tab. III. B), with oval imbricated leaves and heads of the brightest yellow flowers, whose sepals end in awns, at first yellow but afterwards olive-green; and *C. sapphirina*,² a most beautiful plant, with hispid

- (1) *CALYTRIX aurea* (Tab. III. B); strigoso-pubescens, foliis imbricatis oblongis obtusis ciliatis, bracteis margine membranaceis mucronatis tubo calycis brevioribus, aristis petalis duplò longioribus, floribus icosandris.
- (2) *Calytrix sapphirina*; hispido-pilosa, foliis linearibus petiolatis carinatis, capitulis sphaericis, foliis floralibus villosis, bracteis lineari-lanceolatis acuminatis margine membranaceis tubo calycis gracili brevioribus, aristis tenuissimis petalis duplò longioribus, floribus icosandris.
- (3) *Calytrix breviseta*; glaberrima, foliis linearibus semiteretibus obtusis mucronulatis, bracteis obovatis apiculatis tubo calycis æqualibus, aristis petalis paulò brevioribus, floribus icosandris axillaribus.—Flowers pale lilac,
- (4) *Calytrix variabilis*; glaberrima, foliis linearibus tetragonis obtusis minutè papillois imbricatis nunc lineari-oblongis distractis subverticillatis, bracteis obovatis apiculatis calycis tubi longitudine, aristis ciliatis petalis paulò longioribus, floribus icosandris axillaribus.—Flowers lilac.
- (5) *Calytrix simplex*; ramulis pubescentibus, foliis linearibus obtusis glabris carinatis, bracteis lanceolatis acuminatis pubescentibus calycis tubo duplò brevioribus, aristis petalis paulò longioribus, floribus icosandris axillaribus.—Flowers lilac.
- (6) *Calytrix glutinosa*; glaberrima, foliis linearibus semiteretibus obtusis imbricatis, bracteis lanceolatis acuminatis glutinosis tubo calycis paulò brevioribus ultra medium connatis, aristis petalis duplò longioribus, floribus icosandris corymbosis.—Flowers apparently yellow, tinged with purple.

spreading heath-like leaves, and round heads of very deep violet; all the others are pretty, and worthy of cultivation, although not so strikingly beautiful as those just mentioned. Still more remarkable than these is the magnificent *Chrysorrhoe nitens* (Tab. I.), whose yellow flowers of metallic lustre form masses of golden stars some feet in diameter; this plant, which I described some years since (*Companion to Botanical Magazine*, vol. ii. p. 357), is a small bush, and certainly one of the most interesting species that could be introduced; by Dr. Endlicher it is reduced to the genus *Verticordia*, but I think the character assigned to it in the work alluded to is sufficient to define the genus; a comparison of Tab. I. and Tab. II. A, will sufficiently explain in what the difference consists between *Chrysorrhoe* and *Verticordia*. To the former of these genera there is a new species to add, not less beautiful than the original, but with obovate serrated leaves, on which account it may be called *Chrysorrhoe serrata*.⁸ The *Verticordias* are bushes with small, usually heathy, very fragrant, leaves, and corymbs or racemes of white, pink, or yellow flowers; several species have been already described, among which *V. insignis*, Endl. (Tab. II. A) is one of the commonest and prettiest; to these I have to add *V. heliantha*,⁹ a lovely plant with corymbs of large deep yellow feathery flowers; *V. acerosa*,¹⁰ a species resembling the last in habit, but with acerose leaves and smaller paler flowers, which change in drying to a bright deep green; and two species¹¹ with pretty white or blush ones. Of the genus

(7) *Calytrix angulata*; glaberrima, ramulis angulatis, foliis linearibus obtusis carinatis patulis, bracteis obovatis obtusis ultra medium connatis calycis tubo brevioribus, aristis petalis paulò longioribus, floribus icosandris axillaribus. — Flowers yellow.

(8) *CHRYSORRHÖE serrata*; ramulis scabriusculis, foliis obovatis carnosius dorso subtriquetris ciliato-serratis, sepalis multifidis plumosis, petalis ovatis pectinatis, filamentis sterilibus petaloideis oblongis fertilibus æqualibus.

(9) *VERTICORDIA heliantha*; foliis carnosius linearibus mucronatis compressis dorso convexis, corymbis laxis, bracteis connatis persistentibus muticis, sepalis multifidis plumosis, petalis multifidis glabris, filamentis sterilibus ovato-triangularibus serratis, antheris appendice bicorni auctis.

(10) *Verticordia acerosa*; ramulis compressis scabris, foliis acerosius acuminatis glabris superioribus floralibusque ovatis, corymbis densis, bracteis muticis deciduis, sepalis multifidis plumosis, petalis multipartitis glabris, filamentis sterilibus lanceolatis pectinatis, antheris muticis.

(11) *Verticordia densiflora*; foliis linearibus triquetris obtusis, corymbis capitatis multifloris, bracteis deciduis sub apice cucullatis, calycis tubo villosissimo,

Lhotskya, there are two species, one, *L. acutifolia*,¹³ with an abundance of pale axillary yellow flowers, and the other *L. violacea*,¹⁴ with bright lilac flowers in heads. In addition to these the Colony produces three species of a curious little genus, with inconspicuous flowers, closely related to *Genetyllis*, which, from the exquisite sweetness of its foliage, I propose to call *Hedaroma*.¹⁵ The leaves, or rather the half-ripe fruits, of those plants preserve their fragrance so well that they might be worth collecting for the use of the perfumer; and if so they would furnish a new and most agreeable article of luxury to Europe, and a small aid to the natural resources of the Colony.

Among the Myrtaceæ with polyadelphous stamens there are many remarkable species. Mr. Frazer frequently men-

sepalis unguiculatis multipartitis, petalis subrotundis pubescentibus fimbriatis, filamentis brevissimis sterilibus dentiformibus integerrimis, stylo arcuato exserto apice pilis furcatis barbato.—Flowers white.

- (12) *Verticordia setigera*; foliis linearibus concavis ciliato-denticulatis sub apice setigeris, bracteis deciduis dorso setigeris, sepalis multifidis plumosis petalis erectis cuneatis dentatis æqualibus, filamentis sterilibus setaceis a latere glandulosis fertilibus longioribus, stylo petalis brevioribus sub apice barbato, racemo subsecundo nunc corymboso.—Flowers delicate lilac: next *V. pennigera*.

- (13) *Lhotskya acutifolia*; foliis linearibus triquetris acutis glabris, bracteis obovatis mucronatis dorso herbaceis margine membranaceis tubo calycis brevioribus, floribus axillaribus.

- (14) *Lhotskya violacea*; foliis linearibus triquetris obtusis villosis, bracteis obovatis dorso pubescentibus margine membranaceis calycis tubo villosa æqualibus, sepalis dorso villosis, floribus capitatis.

- (15) *HEDAROMA*. Flores capitati, nudi aut bracteati. Calyx tubulosus, carnosus, 5-dentatus. Petala 5, squamæformia. Stamina 20, monadelphia, filamentis alternis petaloideis sterilibus; antheræ sphaeroides poris posticis dehiscentes. Ovula 2, unilateralia. Stylus exsertus, barbatus aut glaber.

Hedaroma latifolium (Tab. II. B); foliis ovato-oblongis subtus glandulosis: involucrantibus latioribus coloratis, filamentis sterilibus truncatis, stylo apice barbato. —It is possible that this may be the *Genetyllis citriodora*, Endl. but that plant is described as having from 4 to 5 ovules, while *H. latifolium* has certainly only 2.

- (16) *Hedaroma piniifolium*; foliis longo-linearibus acutis triquetris involucrantibus similibus coloratis, capitulis multifloris, sepalis rotundatis, filamentis sterilibus ovatis obtusis glandulosis, stylo apice uncinato barbato. —Flowers apparently dark purple.

- (17) *Hedaroma thymoides*; ramis diffusis, ramulis angulatis, foliis linearibus obtusis margine revolutis involucrantibus viridibus parum latioribus, tubo calycis elongato arcuato, petalis carinatis apice verrucoso-glandulosis, filamentis in conum connatis sterilibus dentiformibus inflexis, stylo apice glabro.

tions the beauty of the species of *Melaleuca*, of which there is a great variety, some of which are handsomer than any yet in our gardens. *Melaleuca seriata*,¹⁸ *parviceps*,¹⁹ and *trichophylla*,²⁰ are bushes, every twig of which is terminated by hemispherical heads of a brilliant pink; *M. callistemonea*²¹ has all the beauty of a red-stamened *Callistemon*; *M. striata*, Lab., and *Hugelii*, Endl., and *viminea*,²² a species near *M. armillaris*, have spikes of white; *M. spinosa*²³ forms a spiny bush, with oval spreading leaves and slender spikes of yellow; and *M. Radula*²⁴ is a shrub with long linear leaves, rough with tubercles, among which are scattered a few fine lilac (?) flowers, with a large capitate stigma, and stamens disunited almost to the base of their phalanges; this latter species seems to form a passage from the genus *Melaleuca* to that of *Metrosideros*. Amongst the specimens sent home by Mr.

- (18) *MELALEUCA seriata*; foliis alternis linearibus obtusis subtus glandulis 2-seriatis ramulisque glabris, capitulis densis hemisphæricis, phalangibus oligandris: unguibus petalorum longitudine, calycibus glabris, rachi lanatâ. — Flowers rich rose-colour.
- (19) *Melaleuca parviceps*; foliis alternis teretibus subangulatis scabriusculis junioribus ramulisque pilosis, floribus densè capitatis foliis vix longioribus paucifloris, phalangibus oligandris: unguibus petalorum longitudine, calycibus rachique lanatis. — Flowers in small pink heads.
- (20) *Melaleuca trichophylla*; ramis tomentosis, foliis alternis filiformibus arcuatis acutis pilosis, capitulis hemisphæricis, phalangibus oligandris, petalis longioribus, calyce tomentoso, rachi lanatâ. — Flowers in pink heads.
- (21) *Melaleuca callistemonea*; foliis alternis linearibus utrinque acuminatis incurvis, floribus axillaribus glaberrimis, phalangibus polyandris: staminibus longissimis ad basin usque liberis. — Flowers apparently pale rose-colour.
- (22) *Melaleuca viminea*; ramis virgatis glabris, foliis alternis linearibus acutis glabris distantibus apice recurvis, spicis terminalibus elongatis glabris, phalangibus oligandris: unguibus petalorum longitudine. — Flowers apparently white.
- (23) *Melaleuca spinosa*; ramulis spinosis subpubescentibus, foliis alternis ovalibus acutis trinerviis venosis patentibus, spicis nudis terminalibus, floribus 3-bracteatis, sepalis petalisque striatis glabris, calycis tubo rachique tomentosis, phalangibus 7-andris: unguibus petalis longioribus. — Flowers yellow, in terminal spikes.
- (24) *Melaleuca radula*; foliis oppositis elongatis linearibus canaliculatis dorso scaberrimis, floribus solitariis dissitis axillaribus et corymbosis, phalangibus polyandris ad basin fissis, stigmatibus dilatato capitato, ovario glabro. — Flowers large, and apparently pink.
- (25) *Melaleuca parviflora*; foliis alternis coriaceis lineari-oblongis basi angustatis aveniis, floribus axillaribus dissitis glaberrimis, phalangibus 8-12-andris petalis paulò longioribus, stigmatibus simplicibus. — Flowers small, apparently white.

Drummond occur a few twigs of a plant with narrow lanceolate leaves, and cone-like spikes of yellow (?) flowers, which bears to *Melaleuca* the same relation as *Beaufortia* to *Calothamnus*; that is to say, it differs in having the fruit only three-seeded instead of many-seeded; to this plant, which is more curious than beautiful, the name of *Conothamnus trinervis*²⁶ may be given. Of the splendid genus *Calothamnus* there are four species; of which *C. sanguinea*, Lab., and *C. eriocarpa*,²⁸ are remarkable for the abortion of a part of their stamens, and the combination of the remainder into an irregular sheath slit on one side; *C. purpurea*, Endl., rivals the crimson *Callistemons* in appearance; while the *C. lateralis*²⁷ has long terete leaves and rows of flowers, so imbedded in long lines on one side of the branches, that only the tips of the calyx and the long blood-red stamens can be seen beyond the bark in which the inflorescence takes its rise; in this case the inflorescence is so peculiar as to deserve to become the subject of special enquiry. To these forms have to be added some shrubs which constitute a group not perhaps distinct from *Beaufortia*,²⁹ but distinguished from that genus, as represented by *B. decussata*, by their capitate inflorescence, and by having the dehiscence of their anthers lateral rather than vertical. Of these bushes, all of which are extremely

(26) CONOTHAMNUS. Calyx 5-dentatus. Petala 5. Stamina phalanges petalis oppositæ. Antheræ cum filamentis continuæ, valvulis longitudinalibus persistentibus. Ovarium 3-loculare, ovulis solitariis peltatis. Fructus ramo adnati, intus capsulam 3-locularem, 3-spermam indehiscentem fovens.—Folia opposita, plana. Flores capitato-racemosi, terminales, bracteis latis imbricatis deciduis conum referentibus statu juniore juncti.

Conothamnus 3-nervis. Folia scabra, lineari-lanceolata, trincervia, subvenosa. Capitulum ovatum, bracteis late ovatis pubescentibus. Phalanges 8-10-andræ. Calyx lanatus. Fructus pubescentes.

(27) CALOTHAMNUS *lateralis*; foliis longissimis teretibus, floribus unilateralibus immersis pentameris, phalangibus æqualibus pentandris.

(28) *Calothamnus eriocarpa*; ramis villosis, foliis patulis teretibus, floribus tetrameris, phalangibus 2 polyandris hinc connatis: antheris serie lineari glanduloso-punctatis, staminibus 2 abortivis sejunctis, ovario lanato.

(29) BEAUFORTIÆ § SCHIZOPLEURA. Flores capitato-racemosi, terminales. Calyx inferus, 5-dentatus. Petala 5. Stamina phalanges petalis oppositæ; antheræ verticales a latere dehiscences, valvulis lateralibus deciduis. Ovarium 3-loculare, ovulis solitariis peltatis. Stigma simplex. Fructus sessilis, calycis dentibus persistentibus coronati, intus capsulam liberam 3-locularem, 3-spermam, papyraceam fovens.

Beaufortia (Schizopleura) *Dampieri* (*Beaufortia Dampieri*, A. Cunn.)

pretty, one, *B. purpurea*,³⁰ figured in this sketch (Tab. III. A), has globose heads of deep purple flowers; and another, *B. macrostemon*,³¹ has them of what seems to be a rich scarlet, with a tasselled appearance, owing to the great length of the phalanges of stamens.

Of the Myrtaceæ with distinct stamens the species of known genera are numerous, but not in general so handsome as those already mentioned. There is one species of *Callistemon*,³² with rich crimson stamens, which is perhaps the finest of the genus. Frazer speaks of two *Metrosideros*, growing on the beach, the fragrance of which exceeded any thing "he ever experienced;" and there are several *Bæckea*s, *Leptospermums*, and similar plants. Of the latter, however, the only interesting species are *Agonis*³³ *linearifolia* and *flexuosa*, DC., bushes with knots of white flowers; *Hypocalymma robusta*, Endl., which has clustered flowers, the colour and size of Peach blossoms; and a *Pericalymma* or two, which probably will prove pretty plants. Of unpublished genera there are two, one of which, *Salisia pulchella*,³⁴ has large

(30) *Beaufortia* (*Schizopleura purpurea*; (Tab. III. A) foliis rameis imbricatis lineari-lanceolatis carinatis obtusis basi 3-nerviis, floralibus cordato-ovatis trinerviis marginatis, phalangibus hexandris basi pubescentibus, capitulis globosis.

(31) *Beaufortia* (*Schizopleura macrostemon*; foliis linearibus obtusis planis vel lanceolatis trinerviis marginatis patentibus ramulisque pilosis, phalangibus elongatis 3-4-andris basi villosis.

(32) *CALLISTEMON phaniceum*; foliis lineari-lanceolatis coriaceis mucronatis basi angustatis marginatis aveniis cortâ obsoletâ, calycibus glabris.——Flowers very rich deep crimson.

(33) This name, published by DeCandolle in 1828, was altered by Dr. Brown in 1830 to *Billottia*, the designation given by Colla, under a mistake, to some of the species of *Calothamnus*. As the change is apparently altogether arbitrary, I make no scruple about restoring the nomenclature of De Candolle.

(34) *SALISIA*. Calyx omninò superus, campanulatus, 5-dentatus. Petala 5, membranacea, colorata. Stamina 00, æqualia, annulo inserta; antheræ oblongæ, biloculares, dorsifixæ. Ovarium 6-loculare, omninò inferum; loculis polyspermis, per rimas totidem in fundo calycis elevatas sub anthesi etiam dehiscentibus; stigma subcapitatum.——Flores corymbosi aut racemosi.

Salisia pulchella. Ramuli pubescentes. Folia alterna, obovata, plana, acuta, coriacea, obsoletè trinervia, pubescentia. Flores speciosi, in racemis corymbisque laxè ordinati. Calyx hemisphæricus, $2\frac{1}{2}$ lineas latus, tomentosus, dentibus ovatis acutis. Petala subrotunda, concava, amænè rosea, ciliolata, $2\frac{1}{2}$ lineas longa. Stamina 6 lineas longa, et ultra, numerosa. Calycis

deep purple flowers, with long stamens, and must be a most striking object; it is probably rare, as I have only seen two or three small fragments; it is characterized by having, at the bottom of its superior hemispherical calyx, six elevated clefts, which appear as if they were the united sides of so many inflexed valves, between which there is a passage directly into the cavities where the ovules lie; I am not however sure that this is the real nature of the structure. The other has the structure of a *Melaleuca*, in a slight degree, but the stamens are irregularly polyadelphous, or altogether distinct, the anthers are fixed by their base and not their back, and the flowers grow singly at the ends of the branches, where they are covered with imbricated bracts. Of this genus, which may be called *Eremæa*³⁵ (*ερεμαῖος*, lonely), there are three species, of which the only pretty kind is *E. fimbriata*; *E. pilosa* is probably the plant named *Metrosideros pauciflora* by Endlicher.

Of *Eucalypti* there must be many species, but I have no materials sufficient to ascertain what they are; the barren hills on the bank of the river at Point Frazer are said to produce the magnificent *Eucalyptus calophylla*, but as that plant is not defined I am not sure whether I possess it or not.

tubus intus glaber, in fundo rimis 6 ovarii loculorum dehiscentibus stellatis elevatis interruptus.

- (35) *EREMÆA*. Calyx 5-dentatus, semiinferus, campanulatus. Petala 5. Stamina 00 irregulariter polyadelphe, vel omnino libera, annulo inserta; antheræ basifixæ obovatæ, v. oblongæ, rimis lateralibus (obliquè) dehiscentes. Ovarium semisuperum 2-3-loculare, polyspermum. Stigma simplex. Fructus adnatus, haud immersus, cyathiformis, glaber, intus capsulam 3-locularem loculicido-dehiscentem fovens. Semina numerosa, ascendentia, cuneata. —Folia alterna. Flores solitarii in apices ramulorum, bracteis imbricatis inclusi.
- (36) *Eremæa ericifolia*; ramulis pubescentibus, foliis semiteretibus glabris obtusis corrugatis patulis, bracteis subrotundis glabriusculis, staminibus petalorum longitudine. —Flowers greenish white.
- (37) *Eremæa pilosa*; ramulis pilosis, foliis semiteretibus obtusis corrugatis pilis longis fimbriatis, bracteis ovatis striatis glabriusculis, calyce tomentoso, staminibus petalis duplò longioribus. —Flowers apparently pink. (*Metr. pauciflora*, Endl.)
- (38) *Eremæa fimbriata*; ramulis pubescentibus, foliis oblongis concavis obtusis imbricatis pilis longis fimbriatis subtrinerviis reticulato-rugosis, bracteis calyceisque tomentosis, staminibus petalis 3-plò longioribus. —Flowers rich purple.

FABACEÆ OR LEGUMINOSÆ.

The abundance of this order in all the colonized parts of New Holland is well known, as is the importance of its *Wattles*, or *Acacias*, to the settlers. Swan River is not deficient in its proportion of such plants, the greater part of the species, and some of the genera, being peculiar to it.

One of the most curious characters of a secondary value, connected with Australian *Fabaceæ*, is the general presence of yellow in their flowers, and the very frequent stain of red or crimson found upon the keel and alæ, while the vexillum remains yellow; in these respects the Swan River Flora accords with that of other parts of the continent. There are however some cases of a peculiar deep blue in the whole of the flower, as in *Hovea pungens*, now not uncommon in our Gardens, *H. chorozemæfolia* and *ilicifolia*, and the still more beautiful *Mirbelia floribunda*,³⁹ which must form when in flower one shoot of azure; *Mirbelia dilatata*, R. Br., with bright purple flowers, seems to be abundant. The common genera, of which characteristic species exist here, are chiefly *Acacia*, *Pultenæa*, *Oxylobium*, *Chorozema*, *Daviesia*, *Jacksonia*, *Burtonia*, *Gompholobium*, *Aotus*, *Zichya*, *Physolobium*, *Kennedya*, and *Hardenbergia*; Frazer also speaks of a pendulous species of *Viminaria*, of considerable height, richly clothed with yellow and crimson flowers, by which it is probable that he intended to mention one of the species of *Sphærolobium*, which appear to be common here. *Oxylobium* seems one of the richest in species, and is particularly deserving notice on account of the singular wedge-shaped form of the leaves of *O. dilatatum*⁴⁰ and others. The *Jacksonias* are in most

(39) *MIRBELIA* (*Diplobium*) *floribunda*; ramis pubescentibus, foliis sparsis linearibus brevibus obtusis apice uncinato-recurvis margine revolutis glabris, floribus ad apices ramulorum axillaribus subsessilibus, calycibus sericeo-villosis, ovario pluri-ovulato. (*Benth. mss.*)

(40) *OXYLOBIUM parviflorum*; foliis oblongo-linearibus cuneatisve retusis emarginatisve muticis, racemis axillaribus terminalibusque elongatis laxis, calycibus subsericeis, ovario 4-ovulato. (*Benth. mss.*)

(41) *Oxylobium cuneatum*; foliis cuneato-oblongis obtusis retusisve mucronulatis crassis coriaceis, racemis axillaribus dense capitatis multifloris, calycibus sericeo-villosis subferrugineis, ovario 4-ovulato. (*Benth. mss.*)

(42) *Oxylobium obovatum*; foliis late obovato-cuneatis obtusis truncatis retusisve mucronulatis crassis coriaceis, racemis axillaribus dense capitatis multifloris, calycibus sericeo-villosis subferrugineis, ovario 4-ovulato. (*Benth. mss.*)

(43) *Oxylobium dilatatum*; foliis basi angustatis apice dilatato-subbilobis mu-

cases plants of no beauty, but *J. floribunda*, Endl. and *J. densiflora*,⁴⁴ Benth. are very strange looking plants, with branches so like leaves that they would certainly be taken for them by an incautious observer. *Pultenæas* are not numerous; but *Pultenæa ericifolia*,⁴⁵ Benth. appears to be a common bush. Of *Gastrolobia* there are numerous species,⁴⁶ many of which are charming plants, with long racemes

- cronulatis crassis coriaceis, racemis axillaribus dense capitatis multifloris, calycibus sericeo-villosis subferrugineis, ovario 4-ovulato. (*Benth. mss.*)
- (44) *JACKSONIA densiflora*; ramis teretibus villosis, ramulis sterilibus axillaribus phyllodineis oblongis ovatisve sinuato-dentatis spinosis undulatis rigidis junioribus molliter villosis, racemis densis terminalibus, laciniis calycinis lineari-lanceolatis crassis villosissimis corollam superantibus, carina petalis superioribus majore.—Affinis *J. floribundæ*, Endl. (*Benth. mss.*)
- (45) *PULTENÆA ericifolia*; ramis pubescentibus, stipulis persistentibus erectis, foliis sessilibus linearibus margine involutis subteretibus supra sulcatis muticis siccitate corrugatis glabris, capitulis terminalibus dense multifloris hinc inde proliferis, stipulis filalibus imbricatis per paria connatis in bracteas fuscas trifidas, laciniis ciliatis lateralibus lanceolatis intermedia subulata, bracteolis subulatis, calycis bilabiati laciniis subulatis ciliato-plumosis.—Affinis *P. paleacæ* et *P. aristatæ*. (*Benth. mss.*)
- (46) *GASTROLOBIUM villosum*; foliis oppositis ovato-lanceolatis obtusis setaceo-mucronatis margine undulato-crispis basi cordatis subtus ramisque molliter villosis, bracteis lanceolatis acutis fuscis deciduis calyce subbilabiato longioribus, ovario longiusculè stipitato villoso. (*Benth. mss.*)
- (47) *Gastrolobium parvifolium*; ramis pubescentibus, foliis ternis erectis oblongis obtusis mucronatis integerrimis crassis reticulatis glabris junioribus glaucis, racemis terminalibus, bracteis oblongis fuscis deciduis, calycis glabriusculi labio superiore lato emarginato, ovarii villosi stipite incrassata. (*Benth. mss.*)
- (48) *Gastrolobium spinosum*; glaberrimum, foliis oppositis sessilibus late ovato-cordatis sinuato-dentatis spinescentibus, racemis terminalibus, calycis labio superiore lato breviter bifido, ovario longiuscule stipitato villoso, legumine glabro. (*Benth. mss.*)
- (49) *Gastrolobium cordatum*; (Plate V. B) foliis oppositis breviter petiolatis ovatis mucronatis integerrimis basi profunde cordatis junioribus sericeis adultis ramisque glabris, racemis terminalibus, calycis glabriusculi labio superiore lato emarginato, ovario stipitato sericeo, legumine glabro. (*Benth. mss.*)
- (50) *Gastrolobium oxylobioides*; foliis ternis oblongis v. imis obovatis aristato-mucronatis integerrimis junioribus ramisque adpresse sericeis adultis glabris, racemo terminali interrupto paucifloro, calycis sericei labio superiore lato bifido, ovario stipitato villosissimo; β glabrior, foliis angustioribus, floribus paucis. (*Benth. mss.*)
- (51) *Gastrolobium calycinum*; ramis glabris, foliis ternis oppositis lanceolatis oblongisve aristato-mucronatis integerrimis glaucis, racemis axillaribus terminalibusque laxis paucifloris, calycis ampli glabriusculi labio superiore latissimo bifido, ovario stipitato villosissimo, legumine villoso. (*Benth. mss.*)
- (52) *Gastrolobium trilobum*; glabrum, foliis oppositis ternisve crassis cuneato-

of flowers, yellow and brown. *G. cordatum* (Tab. V. B) has remarkably neat roundish cordate leaves, and must be worth cultivation for its foliage alone; while *G. parvifolium* is a beautiful little species, with small, concave, erect, imbricated leaves, whose veins are so arranged as to give them the appearance of being tessellated. *Aotus cordifolius*, Endl. is a curious plant, with cordate leaves and yellow flowers; and the *Daviesias* rival *Acacia* itself in the strangeness of their

- trilobis, lobis lato-lanceolatis integerrimis spinoso-mucronatis intermedio majore, racemis axillaribus terminalibusque numerosis laxis folio subæquilongis, calycis leviter sericei labio superiore longiore breviter bifido, ovario stipitato villosa. — Folia in hac specie insigniter, in affinibus obscure pelucido-punctata. (*Benth. mss.*)
- (53) *Gastrolobium obovatum*; foliis oppositis sparsive obovato-cuneatis acutis mucronatis integerrimis junioribus ramisque sericeis adultis glabris, racemis axillaribus densis paucifloris, calycis sericei labio superiore bifido, ovario stipitato villosa. (*Benth. mss.*)
- (54) *Gastrolobium spathulatum*; foliis ternis sparsive spathulatis apice dilatatis retusis v. emarginato-bilobis margine integerrimis basi longe angustatis junioribus ramisque sericeis adultis glabris, racemis axillaribus abbreviatis subcapitatis, calycis sericei labio superiore emarginato-bifido, ovario stipitato villosa. (*Benth. mss.*)
- (55) *Gastrolobium* ? *acutum*; ramis villosis, foliis ternis ovatis acutis mucronatopungentibus integerrimis, junioribus subsericeis adultis glabris, racemis abbreviatis axillaribus paucifloris, calyce villosa subbilabiato, ovario sessili villosissimo. (*Benth. mss.*)
- (56) *DAVIESIA ramulosa*; glabra, ramulis tereti-striatis angulatisve aphyllis, floriferis muticis minute bracteatis, sterilibus bi-trichotome ramosis apice spinescentibus, racemis terminalibus, calycibus bilabiatis labio superiore latissimo truncato inferiore acute tripartito. (*Benth. mss.*)
- (57) *Daviesia angulata*; glabra, ramis 4-5-gonis angulis hinc inde anguste alatis, foliis lineari-lanceolatis subfalcatis spinescentibus validis crassis substriatis basi non decurrentibus, racemulis plurifloris folio dimidio brevioribus. — Folia 8-9 lin. longa. (*Benth. mss.*)
- (58) *Daviesia polyphylla*; glabra, ramis angulatis, foliis lineari-oblongis subfalcatis spinescentibus brevibus validis crassis substriatis basi non decurrentibus, racemulis plurifloris folia subæquantibus. — Folia 3-4 lin. longa. (*Benth. mss.*)
- (59) *Daviesia quadrilatera*; glabra, glauca, ramis teretibus, foliis oblongo-quadrilateralibus planis verticalibus angulo inferiore affixis, angulo superiore interiore rotundato exterioribus spinescentibus, spina superioris sursum inferioris deorsum tendente, racemulis plurifloris folio sublongioribus. — Folia, formæ singularis, bis longiora quam lata. (*Benth. mss.*)
- (60) *Daviesia pedunculata*; humilis, ramis subteretibus pubescentibus, foliis oblongis utrinque angustatis apice aristato-spinescentibus glabris, pedunculis folio pluries longioribus apice umbelliferis. (*Benth. mss.*)
- (61) *Daviesia longifolia*; glabra, foliis longe linearibus compressis striatis apice subincurvis muticis, racemulis axillaribus laxis folio brevioribus. — Folia 3-6 pollicaria, 1-2 lin. lata. (*Benth. mss.*)

foliage; *D. quadrilatera* has leaves which look more like objects prepared to puzzle a geometrician than any thing already known in the vegetable kingdom.

Of *Acacia* numerous species occur, among which are *A. alata* and *pulchella*, both varying with smooth and hispid foliage; the greater part of the species are peculiar to the Colony. *A. diptera*⁶² is a singular slender leafless plant, with the branchlets two-winged, glaucous, and bordered with a strong edge; *A. squamata*⁶³ has the tips of the phyllodia curved like a bird's head, and its flowers appear to be brown; *A. extensa*⁶⁴ is a graceful plant, with racemes 6-9 inches long, composed of alternate capitules, and slender angular falcate phyllodia; finally, *A. auronitens*⁶⁵ is a most beautiful stiff spiny bush, with flowers of the deepest yellow; like others it varies from being quite smooth to being covered with rough hairs.

There is one species of the beautiful genus *Lalage*,⁶⁶ and two of *Labichea*,⁶⁹ both of which are peculiar to the Colony.

(62) *ACACIA diptera*; ramis foliaceis angustis bialatis glaucis marginatis foliorum loco in lobis falcatis apice mucronatis inflexis productis, stipulis nullis, pedunculis monocephalis racemosisque ancipitibus, capitulis pedunculatis.

(63) *Acacia squamata*; ramis phyllodiisque rectis apice recurvis glandulosis acutis teretibus glabris, stipulis nullis, capitulis geminatis ternisve pedunculatis e squamis imbricatis deciduis erumpentibus, filamentis discoloribus!

(64) *Acacia extensa*; ramis glabris subtetragonis angulis incrassatis asperis, phyllodiis longissimis falcatis teretibus angulatis apice obliquè mucronatis infra medium glandulosis, racemis, erectis longissimis angulatis, pedicellis alternis æquidistantibus ascendentibus monocephalis, filamentis discoloribus.

(65) *Acacia auronitens*; ramis teretibus glabris hirsutisque, phyllodiis lineariblongis acinaciformibus marginatis apice spinosis unicastis sæpius in medio margine superiore glandulosis, stipulis spinosis, capitulis solitariis, pedunculis phyllodio longioribus.——Formæ 2 adsunt quarum altera glabrata capitulis longius pedunculatis, altera hirsuta phyllodiis angustioribus, pedunculis brevioribus, filamentis minus intense aureis.

(66) *Acacia oncinophylla*; ramis angulatis, phyllodiis longissimis linearibus duris terstriatis basi angustatis apice retrorsum hamatis supra basin glandulosis, stipulis nullis, spicis amentiformibus geminatis phyllodiis multò brevioribus.

(67) *Acacia Drummondii*; sericea, inermis, foliis bipinnatis, pinnis bijugis, foliolis 2-3-jugis oblongo-linearibus obtusis, petiolis acutis marginatis eglandulosis, spicis axillaribus cernuis simplicibus pedunculatis foliis longioribus.

(68) *LALAGE hoveaefolia*; laxè pubescens, foliis oblongis lanceolatisve mucronulatis basi subcordatis, bracteis ovato-lanceolatis sericeis, calycis laciniis superis vix ad medium connatis. (*Benth. mss.*)

(69) *LABICHEA punctata*; suffruticosa, foliis simplicibus oblongo-ellipticis utrinque angustatis mucronatis, utrinque punctatis subtus leviter puberulis, racemis folio brevioribus, anthera utraque obtusa biporosa, ovario sericeo-villoso.——Rami apice compressi. (*Benth. mss.*)

A few Fabaceous genera seem confined to the Colony. Of these the curious *Isotropis striata*, Benth. is a little prostrate bush, with its sterile branches so different from those which bear flowers that one would never suppose them to belong to the same species. *Roca* and *Dichosema* are two others of little beauty, to which have to be added *Orthotropis*⁷⁰ and *Ptychosema*⁷¹ of Mr. Bentham's herbarium, neither of which possess the slightest interest for horticultural purposes; and *Cyclogyne*,⁷² which is quite a new form for Australia, and calls to mind the European species of *Onobrychis*;

- (70) *ORTHOTROPIS pungens*. Calyx basi attenuatus, profunde bilabiatus, labio superiore breviter bifido, inferiore brevior tripartito, Corollæ vexillum late orbiculatum, alis parum longius; alæ oblongæ. Carina oblonga subrecta acuminata alis brevior. Ovarium breviter stipitatum, villosum, pluriovulatum. Stylus brevis, incurvus, glaber. Stigma capitatum. Legumen—Suffrutex humilis basi ramosus, ramis adscendentibus pubescentibus. Folia exstipulata, alterna, sessilia, lineari-lanceolata, acutissima, pungentia, integerrima, marginata, coriacea. Flores pedicellati, in axillis superioribus vel ad apices ramorum racemosi. Calyces pilosi, labio superiore concavo dentibus acutis. Petala ex sicco lutea. Discus staminifer ad tertiam fere partem calycis attingit.—Genus hinc *Isotropidi* inde *Choroze-mati* affine, ab utroque præcipue habitu et carina distinctum. (*Benth. mss.*)
- (71) *PTYCHOSEMA pusillum*. Calyx turbinato-campanulatus bilabiatus labio superiore lato breviter bifido inferiore tripartito, Vexillum explanatum orbiculatum striatum alis longius. Alæ oblongæ. Carina alis parum brevior subrecta obtusa, petalis dorso connatis apice liberis. Stamina monadelphæ: vagina supra fissa. Antheræ uniformes. Ovarium subsessile compressum pluriovulatum glaber. Stylus brevis uncinatus. Stigma terminale capitatum. Legumen Herba pusilla decumbens pilis sparsis longiusculis hinc inde onusta. Stipulæ parvæ. Folia impari-pinnata, foliolis 5-9 oblongo-linearibus obovatisve obtusiusculis, viridibus siccitate complicatis, venis subtus prominulis. Pedunculi terminales uniflori. Bracteolæ 2 parvæ oppositæ a calyce remotæ. Calyx pilosus et corollæ fere *Isotropidis*. (*Benth. mss.*)
- (72) *CYCLOGYNE canescens*. Calyx campanulatus semiquinquefidus laciniis inæqualibus. Vexillum orbiculatum emarginatum complicatum basi nudum petalis inferioribus longius. Alæ breves oblongæ. Carina alis longior valde incurva obtusa, petalis a basi connatis. Stamina distincte diadelphæ. Antheræ consimiles, alternæ eminentes. Ovarium breviter stipitatum villosum pluriovulatum. Stylus incurvus, apice circinato-involutus latere interiore stigmatifer et longe barbatus. Legumen (junius) inflatum oblongum uniloculare intus nudum.—Herba videtur perennis, habitu *Phacae-rum* nonnullarum Americanarum. Caulis erectus flexuosus tomentoso-villosus. Stipulæ foliaceæ late semicordatæ. Folia impari-pinnata. Foliola 13-15 obovato-oblonga, supra glabriuscula, subtus laxè canescenti-villosa. Pedunculi erecti multiflori, folio longiores. Flores subsessiles sparsi v. pseudo-verticillati. Calyces et legumina juniora cano-villosissima. Petala glabra ex sicco cœrulescentia?—Genus *Galegearum*. (*Benth. mss.*)

its flowers are arranged on long peduncles, and seem to be white tinged with violet.

RUTACEÆ.

The plants of this order are very different here from what they are upon the East and South-east coasts. There are no *Correas*, or *Phebaliums*; *Crowea*, *Philotheca*, and *Zieria* seem unknown; and of the other eastern genera, *Boronia* and *Eriostemon*, there are only a few species of little moment; the most remarkable among which are *B. spathulata*,⁷³ an upright simple shrub, with distant glaucous obovate leaves, and terminal pretty pink flowers; *B. viminea*,⁷⁴ a neat little branched shrub with very narrow leaves, and red axillary flowers; and *Eriostemon* ? *nodiflorum*,⁷⁷ whose blue flowers are collected in compact heads, beyond which extend the young branches, covered with heath-like leaves. There are however three genera peculiar to the Colony, one of which is *Diplopeltis Dampieri*, introduced to our gardens by Baron Hugel, a grey shrub, with long pink stamens and the flowers arranged in nodding heads; the second is *Chorilæna quercifolia*, a singular plant, with a broad sinuated foliage clothed with stellate hairs, and greenish white flowers of no beauty, but also capitate; the third is a genus allied to *Boronia*, but having blue flowers, and differing from that genus in the filaments being destitute of a glandular thickening at their junction with the anther. To this genus the

(73) *BORONIA spathulata*; glauca, ramis strictis simplicibus, foliis simplicibus distantibus obovatis integerrimis apiculatis, cymis terminalibus 3-floris pedunculatis, filamentis basi pilosis.

(74) *Boronia viminea*; ramis dichotomis tenuibus flexuosis, foliis linearibus obtusis planis basi angustatis internodiis paulò longioribus, floribus solitariis axillaribus breviter pedunculatis, filamentis villosissimis.

(75) *Boronia teretifolia*; glabra, foliis simplicibus teretibus obtusis basi dilatatis hinc sulcatis, cymis multifloris longè pedunculatis, filamentis hispidis.—Folia reuera plana convoluta.

(76) *Boronia scabra*; foliis simplicibus lineari-oblongis obtusis margine revolutis ramisque hispido-pilosis, floribus solitariis terminalibus, sepalis subulatis hispidis, filamentis glabris.—Flowers very small, red.

(77) *ERIOSTEMUM* ? *nodiflorum*; ramulis pubescentibus, foliis linearibus obtusiusculis glandulosis glabris erectis, floribus lateralibus capitatis, bracteis linearibus margine villosis, calycibus pilosis, filamentis villosis, ovarii lobis inæqualibus cornutis.

name of *Cyanothamnus* may be given;⁷⁸ one of the species is a branching shrub, the other a simple stemmed, apparently annual, plant.

LASIOPETALEÆ.

The abundance of these plants must be taken as one of the most characteristic features of the Swan River Flora, not fewer than four genera and fourteen species of this very small group being already known as its inhabitants. Of these the greater part belong to the genus *Thomasia*,⁷⁹ and are of little

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- (78) *CYANOTHAMNUS*. Sepala 4. Petala 4. Stamina 8, filamentis membranaceis subulatis; antheræ appendice ipsis æquali auctæ. Ovarium simplex. Capsula 4-partita: loculis 2-valvibus monospermis.—Folia simplicia et pinnata. Flores cœrulei.
- Cyanothamnus ramosus*; caule fruticoso ramoso, foliis filiformibus biternatis, floribus axillaribus solitariis, petalis demum involutis recurvis persistentibus, filamentis ciliatis apice pubescentibus, antheræ appendice erectâ planâ.
- Cyanothamnus tenuis*; annua?, foliis simplicibus filiformibus internodiis sæpè brevioribus, floribus solitariis axillaribus, petalis demum erectis imbricatis, filamentis ciliatis apicè glanduloso-punctatis, antheræ appendice ventricosâ oblongâ reflexâ.
- (79) *THOMASIA stipulacea*; glabra sed pilis ferrugineis stellatis hispida, foliis cordatis subhastatis angulatis obtusis sinuatis margine recurvis, stipulis magnis foliaceis petiolatis cordatis subtrilobis latioribus quam longis, racemis secundis foliis longioribus, calyce basi hispido, staminibus 5 sterilibus subulatis, petalis 0.
- (80) *Thomasia paniculata*; foliis cordatis lanceolatis subhastatis pilosis subtus stellato-hispidis, stipulis foliaceis semicordatis rotundatis, racemis flexuosis multifloris foliis longioribus hispidissimis, staminibus 5, petalis 0, stylo glabro.
- (81) *Thomasia pauciflora*; foliis cordatis lanceolatis subhastatis pilosis subtus stellato-hispidis nunc glabrescentibus, stipulis oblongis foliaceis semicordatis obtusis, pedunculis hispidis apice subtrifloris foliorum longitudine, staminibus 5, petalis 0, stylo basi tomentoso.—Priori affinis, sed habitu omnino diversa, et stylo racemis floribusque duplò minoribus facillimè distinguenda.
- (82) *Thomasia glutinosa*; foliis cordatis hastato-trilobis supra pilosis subtus stellato-tomentosis, stipulis nullis?, racemis subterminalibus erectis multifloris glutinosis pilorum fasciculis sparse stellatis, antheris 5 rostratis, petalis 0, stylo tenui filiformi glabro basi piloso.—Flowers bright pink, large and showy.
- (83) *Thomasia canescens*; foliis cordatis ovatis obtusis trilobis hastatisve supra glabratibus subtus ramulisque incano-tomentosis, stipulis nullis?, racemis subterminalibus erectis multifloris incanis, calycibus basi villosis, antheris 5 rostratis, petalis 0, stylo tenui filiformi glabro.—An præcedentis var. sed flores duplò minores.
- (84) *Thomasia grandiflora*; foliis cordatis ovatis obtusis integris demum glabris, bracteis ovatis ovalibusque obtusis integris trilobisque petiolatis, pedunculis

interest, with the exception of *T. stipulacea*, *paniculata*, *glutinosa*, and *grandiflora*, all of which bear fine showy flowers, and deserve a place in a conservatory. Of the other genera, *Corethrostylis bracteata*, Endl. a downy shrub with heart-shaped leaves, is now cultivated in Baron Hugel's garden at Vienna; it bears a profusion of graceful forked racemes of crimson flowers, growing from the axils of crimson bracts, and is one of the most beautiful plants of the Colony. *Sarotes ledifolia*⁸⁵ is a stiff-branched shrub, with very large flowers apparently of a light blue, and small leaves not unlike those of *Ledum angustifolium*, but whorled in threes; like the last genus it is remarkable for having a style covered with clusters of long hairs, so as to look like a bottle-brush. *Leucothamnus montanus*⁸⁶ is a large bush, of rare occurrence on the mountains, with fine campanulate white flowers, at the base of which grow three leafy hispid bracts; its leaves are heart-shaped, coarsely toothed, and about the size of those of *Thomasia solanacea*.

Of other plants allied to *Malvaceæ*, there appears to be very few. A species of *Rulingia* is in Mr. Drummond's collection, and there are five or six fine species of *Hibiscus*, of which *H. lilacinus* of the Botanical Register, tab. 2009, is one of the handsomest. An *Hibiscus*, with peltate leaves, was found by Frazer growing luxuriantly on the beach; but I have seen nothing which answers to this description.

terminalibus tomentosis apice subbifloris, calycibus utrinque tomentosis margine undulatis glabris, staminibus 5, stylo setaceo basi piloso.—Flowers very large, an inch in diameter.

- (85) *SAROTES*. Calyx membranaceus pentagonus. Petala 5, cucullata. Stamina 5, antherarum apice elongato bilobo. Ovarium 5-loculare, loculis dispermis, ovulis superpositis; stylus supra basin scopæformis.

Sarotes ledifolia. Folia linearia, margine revoluta, obtusa, ramulisque incana, fasciculis pilorum nullis conspicuis; ternatim verticillata, forte stipulis in folia omnino mutatis. Pedunculi stellato-tomentosi, apice pauciflori corymbosi. Flores maximi cœrulescentes.

- (86) *LEUCOTHAMNUS*. Calyx campanulatus, bracteis 3 foliaceis basi adnatis. Petala 0. Stamina 10, altè perigyna, ad basin libera; quinque sterilibus membranaceis; antheræ fertilium cordatæ, obtusæ, longitudinaliter dehiscentes. Ovarium conicum, fundo stamineo calycis semi-immersum, ventricosum, 3-loculare; ovulis cuique loculo duobus, erectis, collateralibus; stylus setaceus glaberrimus.

Leucothamnus montanus. Frutex incano-tomentosus. Folia subrotundo-ovata, cordata, inequaliter dentata; majora 3 pollices longa. Stipulæ semicordatæ. Pedunculi oppositifolii, apice racemosi. Calyces unciam in diametro metientes, extus hirsuti, intus tomentosi, albi, striis 5 discoloribus.

DROSERACEÆ.

If there were no other evidence of the springy nature of the soil at Swan River, the abundance of plants of this order would attest it. Only two species are mentioned by Dr. Endlicher, namely, *D. stolonifera*, a small species, with verticillate leaves, and panicles of white flowers; and *D. macrantha*, a very fine species, with stems sometimes more than two feet long, and panicles of large rose-coloured flowers; *D. filicaulis* of the same author, previously supposed to be confined to King George's Sound, has also been met with. To these are five species of *Drosera* and one of *Byblis* to add; all of which are plants of a very remarkable appearance. *D. pallida*⁸⁷ has close panicles of large white flowers, with the general appearance of *D. macrantha*. *D. gigantea*⁸⁸ has a loose paniced erect stem, sometimes as much as two feet high, with small white flowers; *D. heterophylla*⁸⁹ has simple stems, each terminated by three or four very large flowers, and is remarkable for the lower leaves being flat and entirely destitute of the orbicular glandular fringed expansion of the upper leaves; *D. erythrorhiza*⁹⁰ is a small plant with obovate whorled leaves, and bright scarlet bulbs the size of the largest kind of hazel nut; *D. macrophylla*⁹¹ is a plant with a similar

(87) *DROSERA pallida*; glaberrima, caule flexuoso, foliis caulinis alternis longissimè petiolatis peltatis orbiculatis glanduloso-fimbriatis: axillaribus brevibus geminis, racemis terminalibus paniculatis, petalis sepala acuta integerrima duplò superantibus.—Flowers apparently white or pale pink. There is also a variety of this, if not a distinct species, with the sepals minutely pubescent, and slightly fringed.

(88) *Drosera gigantea*; caule erecto paniculato glaberrimo, foliis brevè petiolatis peltatis triangularibus longissimè fimbriatis: axillaribus geminis ferè æquilongis, paniculâ laxâ multiflorâ, alabastris subrotundis, petalis sepala acuta glaberrima superantibus.—Flowers small, white.

(89) *Drosera heterophylla*; bulbis sphæricis nigris, caule erecto simplici flexuoso glaberrimo, foliis radicalibus linearibus acuminatis caulinis subtriangularibus peltatis brevè petiolatis fimbriatis axillaribus nullis, racemis terminalibus paucifloris, petalis sepala oblonga obtusa glanduloso-serrulata triplò superantibus.

(90) *Drosera erythrorhiza*; bulbis sphæricis coccineis, caule brevi simplici verticillum unicum foliorum gerente obovatorum versus marginem glanduloso-villosorum, cymâ terminali puberulâ, petalis sepala acuta glabra duplò superantibus.

(91) *Drosera macrophylla*; bulbis . . . caule brevi simplici verticillum unicum foliorum gerente obovatorum glanduloso-hirtorum, pedunculis elongatis paucifloris glabris in medio verticilli fasciculatis, petalis sepala acuta glabra duplo superantibus.—Like the last in habit, but three times as large.

appearance, and probably has also bulbs. The *Byblis*⁹² is a most beautiful plant, erect, covered with very singular glands, a foot and half high, with filiform leaves ten or eleven inches long, and purple flowers more than an inch and half in diameter. All of these are well worthy cultivation, but it will perhaps be difficult to preserve them.

These Droseraceous plants appear likely to be in some cases of commercial value as dyer's plants. Every part of *D. gigantea* stains paper of a brilliant deep purple; and when fragments are treated with ammonia they yield a clear yellow. The bulbs of *D. erythrorhiza* and *stolonifera* possess the same property; in these there is a deep scarlet powder secreted by the scales of the bulbs, which is instantly dissolved in ammonia, forming at first an orange-coloured fluid of great richness, but it soon changes to the rich purple above mentioned, which is more like the colour obtained from Archil than any thing else to which I can compare it. Possibly these bulbs are what Dr. Milligan speaks of under the name of "boom," which he says "are scarlet roots, not unlike in shape and size to tulip roots. They roast them in the ashes, and then pound them between two flat stones, rubbing the latter with a ball of earth to prevent the root adhering to it; when thus prepared they are mucilaginous and of a glossy black colour; they may be considered the bread of the natives who live near the coast." If so they may be easily enough obtained for the purpose of exportation, and may assist the poorer settlers in turning to account the produce of their land.

PITTOSPORACEÆ.

The forms of this order found in the Colony are, with the exception of a *Pittosporum* of which I have seen fragments, almost peculiar to the West Coast. Both *Sollya heterophylla* and *S. linearis* are found; the latter is a new species, with very narrow undivided leaves, and flowers of the brightest blue; it has recently been introduced by Mr.

(92) *BYBLIS gigantea*; glanduloso-pubescens, caule erecto flexuoso (sesquipedali), foliis longissimis filiformibus, pedunculis solitariis unifloris axillaribus foliis brevioribus, sepalis lineari-lanceolatis 3-5-nerviis quam petala serrulata duplò brevioribus, stigmatibus simplicibus.

Mangles. There are at least three species of *Campylanthera* or *Pronaya*, twining shrubs, with loose cymes of very pretty flowers; of these, *Campylanthera* (*Pronaya*) *elegans* has close clusters of lilac and white blossoms, and has been introduced by Baron Hugel, in whose *Archiv* it is figured at t. 6; *C. Frazeri* has very narrow leaves, and rather loose violet cymes on long peduncles; and the third, which is perhaps not different from the *Pronaya speciosa*, Endl., is much the finest of the genus, having very compound smooth cymes, fully five inches in diameter; of this plant the flowers are large and white; I have in addition to these what may be a mere variety of the last, with smaller flowers and a hairy inflorescence. In Hugel's Enumeration is mentioned a *Marianthus candidus*, found among rocks at the Swan, with white flowers arranged in long-stalked repeatedly di- or trichotomous terminal cymes; this plant I have not seen, but in Mr. Toward's collection there is a plant, apparently belonging to the same genus, with branching, half twining, smooth and deep brown branches, oblong leaves, some of which are serrated, and few flowered terminal cymes of white flowers striped with purple; this, which may be named *Marianthus pictus*,⁹³ would form a neat and pretty twiner.

COMPOSITÆ, or ASTERACEÆ.

The species of this order are numerous, and in some cases beautiful; a few of them are curious, but the greater part are neither the one nor the other. Gigantic thistles, eleven feet high, are mentioned by Frazer, but nothing corresponding to such plants has been seen by me. He also speaks of the barren sandy cliffs being in many places snow-white with the flowers of a *Gnaphalium* with procumbent stems, which is probably the *Helichrysum Cotula*, Benth. a genus of which there are many species; *H. macranthum* and *bicolor*, which are the handsomest, being already in cultivation. Nearly allied to these is *Morna*, a beautiful genus,

(93) *MARIANTHUS pictus*; ramis subvolubilibus resinoso-rugosis nitidis, foliis petiolatis ovalibus glaberrimis subtus pallidis nunc inæqualiter serratis, cymis paucifloris sessilibus.—Flores irregulares, petalis ascendentibus spathulatis obtusis. Stamina 5, inæqualia, declinata; antheris ovatis rectis, basifixis, long. dehiscentibus. Ovarium declinatum, 2-loculare, ovulis 00 uniserialis, stylo continuo, stigmate simplici.

Rhodanthe, now so common, and several unpublished plants, of new genera, the more remarkable of which are the following; viz. *Lawrencella rosea*,⁹⁴ a most beautiful annual, resembling *Rhodanthe*, but handsomer, and differing in the achænia being covered with long clavate glands, and in the pappus not being plumose; from the greater part of the allies of *Rhodanthe* it is distinguished by the pappus being in many rows; *Xyridanthe*,⁹⁵ another genus near *Rhodanthe*, from which it differs in the pappus being paleaceous and plumose, not setose: the species are annuals of no beauty; and *Pithocarpa*,⁹⁶ a very curious genus, of which there are two rather pretty species; it is near *Humea* in character, but entirely different in habit. To these has to be added *Rhytidanthe* and *Ixiolæna*, Benth., genera with which I am unacquainted.

(94) *LAWRENCELLA* (Helichryseæ). Capit. multiflorum homogamum. Involucrum hemisphæricum, imbricatum; squamis exterioribus herbaceis sphacelatis interioribus petaloideis radiantibus. Receptaculum planum nudum. Cor. 5-dentatæ. Antheræ ecaudatæ. Stigmata conica dorso glandulosa. Achænia erostris, compressa, glandulosa. Pappus multiserialis, setosus, æqualis; setis serratis.—Antheræ certe ecaudatæ et basi rotundatæ, sed filis quibusdam arachnoideis tenuissimis loco caudæ colligatæ.

Lawrencella rosea. Herba annua, glanduloso-subpubescens. Folia opposita et alterna, linearia, obtusa, indivisa. Pedunculi axillares et terminales, monocephali, lanati. Involucrum squamæ ext. ovatæ, acutæ, margine lanatæ; interiores elongatæ, apice subdentatæ, amœnè roseæ.

(95) *XYRIDANTHE* (Helichryseæ). Capitulum multiflorum homogamum. Involucrum campanulatum, imbricatum; sq. ext. concavis rotundatis subscariosis, interioribus radiantibus apice appendice petaloideâ auctis. Receptaculum planum nudum. Cor. 5-dentatæ. Antheræ pilis arachnoideis caudatæ. Stigmata truncata. Achænia erostris, lanata. Pappus paleaceus, biserialis, corollâ longior; paleis plumosis.

Xyridanthe stricta. Herba annua, glaberrima. Folia alterna, oblongo-lanceolata, membranacea, sessilia. Rami stricti, monocephali, pedunculo omnino nudo. Capit. $2\frac{1}{2}$ lin. longa, fusca, nitentia, Xyridis capitulum referentia; squamis oblongis obtusis, interioribus appendice brevi albâ radiante.

(96) *PITHOCARPA* (Helichryseæ). Capitulum multiflorum, homogamum. Receptaculum conicum nudum. Involucrum turbinatum, multiseriale, imbricatum; squamis exterioribus subulatis, intimis petaloideis radiantibus. Corolla tubulosa, 5-dentata. Antheræ lana tenui baseos cohærentes. Achænium erostre, oblongum, calvum, pubescens.

Pithocarpa pulchella. Sesquipedalis, herbacea, lanugine deciduâ tenui vestita. Caulis paniculatus parum ramosus, quasi aphyllus; foliis lineari-lanceolatis sublanatis sessilibus, distantibus. Ramuli 2-3 poll. longi, monocephali, ascendentes, squamis parvis linearibus distantibus vestiti. Involucrum basi sublanati squamæ exteriores purpureo apiculatæ, interiores candidæ, obtusæ.

(97) *Pithocarpa corymbulosa*; ramis elongatis apice corymbosis, involucrum sublanati squamis exterioribus scariosis acutis.

Some genera with conglomerated capitula also occur, such as *Cylindrosorus* and *Myriocephalus* of Benthams, but they are of no beauty. Several Asteroideæ are found here, many of which belong to the inconspicuous genera *Brachycome* and *Lagenophora*; an *Eurybia* has also been described, and there is a genus nearly allied to *Francoeuria*, the *Asteridea pulverulenta*,⁹⁸ a plant of some beauty, with the appearance of an Aster Novæ Angliæ; it is not a little remarkable that with these there also occurs a plant of the genuine genus *Aster*,⁹⁹ and of the Alpigenous section, with altogether its habit. The nearest approach to the vegetation of Cape Compositæ is met with here, in the case of *Eriocladium pyramidatum*,¹⁰⁰ a plant related to *Morisia*, but very different in structure. There is even an imitation of the American Labiate Compositæ in the form of *Amblysperma scapigera*, Benth. a very handsome plant, with very large pale yellow or white flower-heads placed on a scape from a foot to a foot and half high; it is one of the finest plants of the order found on the continent of Australia.

- (98) **ASTERIDEA.** (Asteroideæ, Inuleæ). Capitulum hemisphæricum multiflorum radiatum; fl. radii ligulatis uniserialibus tridentatis fœmineis; fl. disci 5-dentatis apice glandulosis, hermaphroditis. Invol. imbricatum, squamis exterioribus subulatis, interioribus linearibus. Receptaculum planum, ebracteolatum, areolis elevatis. Anthæræ basi setoso-appendiculatæ. Achæ-nium erostre. Pappus setis uniserialibus, basi subscabris, apice barbellato-subplumosis, annulo nullo.

Asteridea pulverulenta. Herba erecta, ramosa, Asteris N. Angliæ facie, undique pilis mollibus ramentaceis pulverulenta. Caulis corymboso-paniculatus. Folia alterna, linearia, semiamplexicaulia, margine revoluta, utrinque, præcipuè subtus scabriuscula. Squamæ involucri exteriores subsquarrosæ, apice setacæ glabræ, inferiùs glanduloso-pilosæ. Flosculi radii semunciam longi, verosimiliter albi.

- (99) **ASTER exul** (Alpigenus); caulescens, hispido-pilosus, foliis spathulatis obtusis imbricatis integerrimis dentatisque, pedunculis monocephalis foliis longioribus, involucri squamis linearibus acutis pilos articulos densè gerentibus, achæniis striatis pubescentibus.—Flowers appear to be purple.

- (100) **ERIOCLADIUM**, (Athanasieæ). Capitulum multiflorum, homogamum. Invol. hemisphæricum, imbricatum, densè lanatum. Receptaculum conicum, paleis latis membranaceis apice appendiculatis florum longitudine onustum. Cor. 5-dentatæ, basi inâ glanduloso-pilosæ. Anthæræ ecaudatæ. Stigmata truncata. Achænia erostria, calva, teretia, glabra.

Eriocladium pyramidatum. Tota lanugine densâ albâ vestita. Caulis pyramidatus, ramis rigidis ascendentibus 1-3-cephalis. Folia linear-oblonga, sessilia, alterna, internodiis paulò longiora. Capitula in fastigio ramulorum, inter folia sessilia. Discus flavus conicus.

three times as large; *L. biloba*¹¹³ is a branching heath-like shrub, with brilliant blue flowers growing three or four together at the ends of the slender branches; finally, *L. laricina*¹¹⁴ and *L. glauca*¹¹⁵ are plants with the habit of the now common *L. formosa*, but covered with great quantities of red or yellow flowers, larger than in that species. The *Dampieras* most worthy of observation are *D. cuneata* and *D. linearis*, R. Br., both dwarf herbaceous plants, with coriaceous leaves and deep blue terminal flowers; *D. triloba*,¹¹⁶ a plant allied to *D. fasciculata*, with multitudes of short axillary spikes of blue flowers, will probably be a gay-looking plant, and *D. coronata*¹¹⁷ will certainly rival the handsomest of the Cape Lobelias; but all the other species, and there are many, are by no means beautiful objects.

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- (113) *Leschenaultia biloba*; foliis linearibus, floribus in corymbo paucifloro laxè aggregatis, pedicellis ebracteolatis, sepalis tubo corollæ vix æqualibus, corollâ extus glabrâ intus stuposâ laciniis altè bilobis serrulatis mucrone interjecto, filamentis glabris.
- (114) *Leschenaultia laricina*; foliis densè imbricatis linearibus glaucis apiculo acuminato, floribus axillaribus in apice ramorum subternis, pedicellis ebracteolatis, sepalis tubo corollæ brevioribus, corollâ glabrâ basi intus stuposâ, filamentis glabris.
- (115) *Leschenaultia glauca*; foliis linearibus trigonis incurvis glaucis densè imbricatis apiculo acuto, floribus axillaribus in corymbo denso aggregatis, pedicellis ebracteolatis, sepalis corollæ tubo multò brevioribus, corollâ unilabiâtâ extus glabrâ intus stuposâ laciniis ciliatis, filamentis glabris.—Near *L. expansa*, R. Br. from which it differs in the want of bracteolæ, and probably in other respects.
- (116) *DAMPIERA triloba*; herbacea erecta, caule trigono, foliis sessilibus cuneatis trilobis utrinque glabris, spicis axillaribus paucifloris folio brevioribus, corollis extus pilis appressis, ramulis parallelo-approximatis.—Flowers bright blue, but small.
- (117) *Dampiera coronata*; herbacea erecta, caule triptero paniculato, foliis glaberrimis inferioribus cuneato-lanceolatis incisive dentatisve superioribus linearibus acutis summis subulatis, floribus pedunculatis, ovario hinc gibboso calyce 5-dentato coronato, corollæ pilis nigris aretè appressis.
- (118) *Dampiera alata*; herbacea erecta, caule simplici alato marginato, foliis obovatis integerrimis basi angustatis, pedunculis filiformibus glabris apice paucifloris, corollis extus nigro-barbatis: villis plumosis.
- (119) *Dampiera lavandulacea*; ramis teretibus, foliis lineari et oblongo-lanceolatis linearibusve subdentatis margine revolutis subtus incanis, pedunculis terminalibus axillaribusque lanatis, corollis extus griseo-barbatis: villis plumosis.—Flowers blue.
- (120) *Dampiera teres*; foliis semiteretibus obtusis incanis, spicis longè pedunculatis, floribus distantibus, corollis extus densè tomentosus; villis nullis.—Flowers very bright blue. A small species, with slender peduncles.

STYLIDIACEÆ.

The abundance of this singular order at Swan River is most remarkable. Judging from the specimens hitherto received they must be among the most common plants; indeed this Colony seems to produce a greater proportion of species than any other country yet examined. In Brown's prodromus forty-six species only are named for all New Holland, if ten are added for those of other countries, we shall have only fifty-six; but I possess from Swan River alone at least forty well marked species, and there are some of Baron Hugel's with which I am unacquainted. By far the larger part of these are plants that it would be desirable to introduce into cultivation; for, independently of the singular irritability of their column, they have in most cases beautiful gaily coloured flowers, the abundance of which compensates for their smallness; and from what we know of the very few yet in gardens, no difficulty has to be anticipated in their cultivation. Their tints are by no means confined to pink, as it would seem from those already seen in a living

- (121) *STYLIDIUM* (I. A.) *leptostachyum*; scapo simplici glaberrimo discolore, foliis obovatis acutis longè petiolatis, racemo simplici elongato, rachi ovariis pedicellisque glandulosis.—Flowers small, apparently white. Stem $1\frac{1}{2}$ to 2 feet high, very slender, deep purple.
- (122) *Stylidium* (I. A.) *scabridum*; scapo glanduloso-piloso decumbente foliis linearibus reduplicatis pubescenti-scabris æquali, racemo laxo subcorymboso glanduloso-hirsuto.
- (123) *Stylidium* (I. A.) *caricifolium*; scapo stricto glanduloso-piloso foliis lineariformibus reduplicatis pubescenti-scabris longiore, racemo sub-ramoso, rachi ovariis pedunculisque glandulosis.—Near the last, but the flowers are much larger, and the rachis, &c. destitute of the shagginess of that species.
- (124) *Stylidium* (I. C.) *saxifragoides*; foliis linearis-lanceolatis apice piliferis margine scabriusculis, scapo glabro, racemo subramoso, rachi ovario corollæque glanduloso-pilosis.
- (125) *Stylidium* (I. C.) *striatum*; foliis obovato-lanceolatis acutissimis flabellatim venosis glabris, scapo glaberrimo glauco foliis quibusdam linearibus prope medium approximatis et quasi verticillatis, racemo simplici, floribus eglandulosis.—Perhaps this plant should be rather stationed in Brown's section I. D., for the small leaves of the scape are almost verticillate; the leaves however are remarkably different from those of any other species. The scape is $1\frac{1}{3}$ foot high; the flowers seem to be white.
- (126) *Stylidium* (I. C.) *bicolor*; foliis linearibus mucronatis margine scabris, scapo glaberrimo aphylo, racemo laxo subramoso, ovario rachi corollæque glandulosis.—Flowers apparently white, with a deep purple spot in the middle of the lobes of the corolla.
- (127) *Stylidium* (I. C.) *ciliatum*; foliis linearibus ciliatis apice piliferis, scapo floribusque pilis luteis glandulosus vestitis, rachi villosissimâ, paniculâ pyramidatâ.—Flowers apparently white.

state in Europe; for although that colour is predominant, yet we have yellow, yellow spotted with brown, and many shades of purple. Of already published species the following will be found the most striking; *S. hirsutum*, R. Br., whose flowers are as large as those of *Lobelia heterophylla*, *S. pilosum*, Lab., *S. crassifolium*, R. Br., which has a stem two feet high, and *S. Brunonianum*, Benth., a glaucous species with verticillate leaves, and interrupted racemes of beautiful violet flowers. Of the numerous kinds hitherto undescribed, those whose characters are given below are plants exceedingly well worth cultivation.

- (128) *Stylidium* (I. C.) *hispidum*; foliis linearibus hispidis incurvis apice piliferis, scapo glaberrimo, racemo subramoso corymboso, rachi floribusque glanduloso-tomentosis, sepalis ovatis obtusis.——Flowers white.
- (129) *Stylidium* (I. D.) *compressum*; scapo compresso articulis 3 verticillato-foliatis, foliis radicalibus linearibus obtusis, racemo cylindraceo glauco simplici, rachi subglandulosâ, floribus glaberrimis.——Flowers bright rose-colour.
- (130) *Stylidium* (I. D.) *diuroides*; scapo 1-articulato glabro: foliis verticillatis superioribusque sparsis: radicalibus filiformibus obtusis, racemo simplici pyramidato subglanduloso, calycis foliolis basi planis.——Flowers bright yellow, with the purple marking of *Diuris maculata*.
- (131) *Stylidium* (I. D.) *nudum*; caule elongato imbricato, foliis spathulatis acutis margine denticulatis, scapo aphylo, racemo cylindraceo simplici glandulis nigris vestito.
- (132) *Stylidium* (I. D.) *caulescens*; caule elongato imbricato, scapo extra medium verticillo 1, foliis caulinis spathulatis acuminatis margine denticulatis scapi linearibus, racemo cylindraceo simplici glandulis lutescentibus densè pubescente.——A beautiful pink-flowered caulescent plant, nearly related to the last species, from which it differs not only in the characters above given, but also in the spike being longer and more slender, the ovaries much longer, and the whole inflorescence, instead of being glaucous, covered rather thickly with small glands upon yellow hairs.
- (133) *Stylidium* (II. A.) *pycnostachyum*; scapo villis acutis piloso, foliis radicalibus spathulatis apiculatis ciliatis, paniculâ densâ cylindraceâ glanduloso-tomentosâ, rachi villosâ, calycibus obtusis.
- (131) *Stylidium* (II. A.) *canaliculatum*; undique glaberrimum, scapo folioso, foliis linearibus acutis subcanaliculatis, paniculâ pyramidatâ, pedicellis glandulosis.——Flowers small, pale yellow.
- (135) *Stylidium* (Centridium) *androsaceum*; foliis radicalibus membranaceis ovato-subrotundis petiolatis subglandulosis, scapo glabro subglanduloso, cymâ simplici brachiâtâ basi diphyllâ, pedunculis pubescenti-glandulosis, ovario glanduloso-scabro, corollæ calcaratæ tubo brevissimo laciniis posticis bidentatis anticis majoribus inæqualiter bilobis, labello parum minore.——A nearly leafless plant, about six inches high, with the aspect of an annual *Androsace*. It is nearly related to *S. calcaratum* of Brown, and with it, and perhaps *S. stipitatum* Benth., forms a section of *Stylidium*, much more distinct from those called *Tolypangium* and *Nitrangium* by Endlicher than they are from each other.

PROTEACEÆ.

No where is the many-faced appearance, from which these plants derive their name, more conspicuous than at the Swan River, where they are extremely numerous, and to a great extent different from those of the rest of the continent. No one would suspect the genus *Conospermum* to belong to the order at all, until after a minute examination, for while the majority of the species with their long woolly paniced irregular flowers have altogether a peculiar aspect, *C. acerosum*¹³⁶ might be mistaken for a *Colletia*; and *C. glumaceum*¹³⁷ has altogether the appearance of some *Bupleurum* with great membranous bracts. *Stirlingia simplex*¹⁴⁰ resembles a *Sanicula*, and many of the species with capitate flowers have greatly the character of a Composite inflorescence. As to the *Hakeas* and *Grevilleas*, of which there are many, their leaves are so varied and peculiar that a young Botanist might be excused for mistaking them for ferns, or *Cycadaceæ*.

As this order is so important a part of the vegetation of the Colony, and more likely than any other to find its way into gardens, it is desirable to notice the new species in rather more detail than has generally been done in this little sketch.

Anadenia consists of plants whose leaves are their chief

(136) *CONOSPERMUM acerosum*; foliis acerosis pungentibus glaberrimis, pedunculis axillaribus solitariis tomentosis foliis multò brevioribus, capitulis paucifloris, bracteis cucullatis mucronatis calycibusque glabris.

(137) *Conospermum glumaceum*; glabrum, caule ramoso, foliis linearibus uninerviis falcatis mucronatis, floribus paniculatis intra capitula glumacea inclusis, bracteis lanceolatis imbricatis nervatis coloratis, rachi villosâ, ovario piloso.

(138) *Conospermum sclerophyllum*; minutissimè pubescens, caule paniculato, foliis teretibus apice conicis sphacelatis, pedunculis axillaribus foliis duplò longioribus e spicis alternis, rachibus calycibusq. lanatis.

(139) *Conospermum incurvum*; caule fruticoso dichotomo pubescente, foliis filiformibus patentibus canaliculatis incurvis glabris, pedunculis apice racemosis et paniculatis terminalibus angulatis distanter squamatis rachibusque glabris, pedicellis calycibusque villosissimis, galeâ calva. — *C. disticho* affinis.

(140) *STIRLINGIA simplex*; pedunculis elongatis indivisis, capitulis multifloris, bracteis exterioribus ovato-lanceolatis acutis.

(141) *Stirlingia paniculata*; scapo paniculato multifloro, capitulis 5-9-floris, foliis ter bipartitis: laciniis lineari-lanceolatis planis apice callosis.

ornament, the flowers being small and inconspicuous. *A. flexuosa*¹⁴² is a singular species, allied to *A. pulchella*, with most curious zigzag leaves; *A. gracilis*¹⁴¹ is a pretty graceful plant, near *A. trifida*; *A. Aquifolium*¹⁴⁵ might be mistaken for a Holly, when not in flower; and *A. hakeoides*¹⁴⁶ has broad toothed reticulated leaves, so much like those of *Hakea undulata* that it would be mistaken for that plant if it were not for the absence of the hypogynous gland of the order.

To *Conospermum*, and the strange species called *C. acerosum* and *glumaceum*, allusion has already been made; besides these there is *C. Hügelii*, Endl., a plant with small simple heads of inconspicuous flowers, and several others with calyxes buried in wool, such as *C. triplinervium* and *undulatum*,¹⁴⁷ *brachyphyllum*,¹⁴⁸ &c.; among which *C. densi-*

- (142) *ANADENIA flexuosa*; foliis bipinnatifidis glabris rachi flexuosâ alâtâ: lobis decurrentibus triangularibus elongatis pungentibus integris, racemis densis pedunculatis multifloris, perianthii glabri apicibus subrotundis, stylo et ovarii pedicello compressis.
- (143) *Anadenia tenuiflora*; villosa, foliis pinnatis: laciniis cuneatis tripartitis trifidisque venis subtus prominentibus sæpius apice tridentatis lobis triangularibus pungentibus, racemis axillaribus foliis brevioribus, perianthii tenuissimè pubescentis apicibus subulatis, stylo pubescente, ovario longè stipitato, stigmate subulato.
- (144) *Anadenia gracilis*; ramis gracilibus angulatis sericeis, foliis marginatis tripartitis pinnatifidisque, in petiolum elongatum cuneatum decurrentibus supra glabriusculis subtus pilosiusculis: laciniis angustè oblongis pungentibus nunc acuminatis integris nunc abruptè tridentatis dente intermedio productiore, racemis foliorum longitudine rachi pubescente, perianthii glabri apicibus subrotundis, stylo elongato stipitique glabro.
- (145) *Anadenia Aquifolium*; ramis angulatis sericeis, foliis oblongis spinoso-dentatis basi cuneatis integerrimis subtus sericeis reticulatis supra planis, racemis foliis brevioribus, rachi perianthiisque glabris, stipite ovarii stylo multò brevior.
- (146) *Anadenia hakeoides*; glaberrima, foliis oblongis spinoso-dentatis utrinque reticulatis basi cuneatis integris, fasciculis axillaribus sessilibus glabris, bracteis villosis, ovario sessili. — Species *Hakeæ* facie, sed glandulâ hypogynâ nullâ. Stylus conicus elongatus *Anadeniæ*, sed stipes ferè nulla.
- (147) *CONOSPERMUM undulatum*; foliis lanceolatis undulatis basi attenuatis obsolete triplinerviis sericeis, paniculâ longissimè pedunculatâ e spicis alternis, rachibus bracteis calycibusque lanatis. — *C. triplinervio* aff. sed floribus quadruplò majoribus; amborum coma ovarii pilis longissimis vestitur ferrugineis.
- (148) *Conospermum brachyphyllum*; acaule, foliis erectis fasciculatis teretibus glabris, pedunculo terminali longissimo simplici glabro squamis distantibus appressis acuminatis vestito sursùm minutè sericeo corymboso paniculato, rachibus lanatis, calycibus villosissimis.

florum,¹⁴⁹ with very closely arranged flowers, seems to have blue bracts.

The *Synapheas* are in many cases ragged-looking plants, whose leaves seem as if they were intended to be larger, but starved into hard dry lobes. *S. decorticans*¹⁵⁰ is a strange oak-leaved plant, whose bark is thrown off in numerous thin brown layers; *S. brachystachya*¹⁵² seems clothed with the leaves of an *Eryngium*; and *S. pinnata*¹⁵³ has large regularly pinnated leaves, glaucous on the underside.

Lambertia occurs in the form of a most beautiful species, with orange-coloured flowers,¹⁵⁴ and is moreover of great Botanical interest from its flower-heads consisting each of either thirteen or nineteen flowers, neither more nor less. When Dr. Brown described the genus in his *Prodromus*, he only knew species with either one or seven flowers in a head; and with his habitual sagacity he ascribed that number to

- (149) *Conospermum densiflorum*; sericeo-pilosum, foliis filiformibus densè imbricatis, pedunculo longissimo apice corymboso, floribus capitatis bracteis lineari-lanceolatis villosissimis (cæruleis?) æqualibus, calycis longè tubulosi laciniis elongatis, ovario pubescente apice comoso, stigmate fornicato.—An *Chiluris* associandum?, calyx enim tubo gaudet elongato laciniis linearibus solito longioribus, haud tamen caudatis.
- (150) *SYNAPHEA decorticans*; foliis favosis glabris inferioribus obovatis et cuneatis trilobis superioribus cuneatis tripartitis petiolo duplò brevioribus: laciniis oblongis planis obtusis mucronatis lateralibus 2-3-lobis intermediâ tripartitâ lobis bilobis trilobisque, squamis involucrantibus sericeo-villosis, spicis elongatis foliorum longitudine, calycibus glabris, ovario pubescente, stigmate truncato obsoletè bicorni.
- (151) *Synaphea gracillima*; foliis favosis glabris inferioribus obovato-oblongis trilobisque superioribus tripartitis petiolo tereti gracili triplò brevioribus: laciniis divaricatis lineari-oblongis planis obtusis mucronatis lateralibus intermediâque bi-tripartitis, squamis involucrantibus glaberrimis, spicis ramosis gracillimis foliis multò longioribus, calycibus ovarioque glabris, stigmate bicorni.
- (152) *Synaphea brachystachya*; foliis planis subtus sericeis: inferioribus obovatis subsessilibus, intermediis cuneatis in petiolum ipsis longiorem angustatis trilobis laciniis spinoso-tridentatis; supremis petiolis dilatatis multò longioribus tripartitis canaliculatis laciniis tridentatis spinosis, spinis erectis foliis brevioribus, ovario lanato, stigmate truncato.—Variat. foliis angustioribus, subtus glabriusculis.
- (153) *Synaphea pinnata*; foliis pinnatis 2-3-jugis; foliolis oblongo-linearibus reticulatis subtus glaucis petiolo brevioribus: jugo infimo nunc trifoliolato, spicis ramosis foliis multò longioribus, floribus distantibus, calycibus glabris, ovario pubescente.
- (154) *LAMBERTIA multiflora*; involucro floribus duplò breviorè, foliis linearibus mucronatis basi angustatis utrinque glabris margine planis.

EPACRIDACEÆ.

These are numerous, but of little interest. The genera are all found in other parts of the continent, with the solitary exception of *Conostephium*,¹⁰¹ of which two species are known, both rather pretty shrubs, with one-sided spikes of flowers, whose pallid calyx strikingly contrasts with their conical corolla. The greater number of species belong to *Leucopogon*, but none of them deserve particular record. Of *Lissanthe*¹⁰² there is a noble form, already introduced and known in the gardens by the false name of *Leucopogon verticillatus*; it has fascicles of small flowers, but its quasi-verticillated leaves, with long intervals between them, give it a singular and handsome aspect. There are several *Andersonias*, among which *A. aristata*,¹⁰³ with dense heads of bearded flowers surrounded by an aristate calyx, is the most deserving notice. To these have to be added a small red-flowered *Stenanthera*,¹⁰⁴ a long-flowered rather handsome *Styphelia*,¹⁰⁵ and two very beautiful *Lysinemas*.¹⁰⁶

GOODENIACEÆ.

The species of this order are very numerous, and are chiefly blue-flowered; the proportion of yellow species being

(101) *CONOSTEPHIUM pendulum*, Benth. and

Conostephium minus; foliis linearibus margine revolutis apice sphacelatis, calycibus leviter pubescentibus.—Flowers not more than half the size of *C. pendulum*.

(102) *LISSANTHE verticillata*; foliis glaberrimis oblongo-lanceolatis striatis subtus pallidis verticillatim approximatis internodiis subæqualibus, spicis axillaribus quasi fasciculatis laxis foliis brevioribus.

(103) *ANDERSONIA aristata*; foliis linearibus appressis acutis apice incurvis glabris, floribus capitatis, corollæ laciniis revolutis barbatis calyce aristato brevioribus.

(104) *STENANTHERA ciliata*; foliis linearibus pungentibus ciliatis, bracteolis 4 striatis sepalisque apiculatis corollâ brevioribus.

(105) *STYPHELIA tenuifolia*; foliis ovatis concavis aristatis serrulatis, tubo corollæ tenui longissimo intus nudo, ramulis subpubescentibus.

(106) *LYSINEMA curvatum*; ramulis tomentosis, foliis ovato-linearibus carinatis imbricatis leviter ciliatis apice incurvis, corollis arcuatis pentapetalis: unguibus apice cohærentibus intus lanatis calyce longioribus, bracteis 25-30 margine lanatis.

(107) *Lysinema spicatum*; ramulis foliisque ovatis imbricatis carinatis glabris, floribus spicatis, bracteis foliaceis, corollis pentapetalis: unguibus longitudinaliter distinctis extus tomentosis.

inconsiderable. The prettiest of the latter is a *Velleya*,¹⁰⁸ allied to *V. spathulata*, R. Br., but whose calyx has five sepals. *Euthales trinervis*, R. Br., is also found here, and several *Goodenias*, all however mere weeds, with the exception of *Goodenia rigida*, Benth., and a plant allied to *G. incana*, R. Br., if not the same, both which are pretty blue-flowered plants resembling *Lobelias*. Mr. Frazer found an aquatic *stoloniferous* species, covering the sandy bottom of the shoal water of Pelican Point, but I do not know which it was. Of *Scævola* there are many; of that genus *S. anchusæfolia*, *calliptera*, and *pilosa*, Benth., are showy herbaceous plants; *S. multiflora*¹⁰⁹ is also of some beauty, in consequence of its numerous pale blue flowers arranged in close leafy spikes; *S. platyphylla*¹¹⁰ is a broad-leaved hairy species, with white flowers of considerable size; but *S. squarrosa*,¹¹¹ *fasciculata*, Benth., and all the others I am acquainted with, are not at all suited to the objects of cultivators. It is among the *Leschenaultias* and *Dampieras* that the fine plants of this order are to be sought in this part of the world. Of the former genus five if not six species have already been discovered, all of which are most beautiful plants; *L. floribunda*, Benth. has dense clusters of blue and red flowers at the end of long branches, and is the least deserving cultivation; *L. grandiflora*¹¹² is like it in habit, but has a deep blue corolla, two or

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- (108) *VELLEYA lanceolata*; caule procumbente, foliis lanceolatis basi angustatis subdenticulatis pilosiusculis axillis villosis: superioribus linearibus pedunculis brevioribus, calyce 5-phyllo piloso, corollâ basi gibbosâ.—Flowers bright yellow. This plant agrees with neither of Brown's sections exactly; but naturally belongs to the second of them.
- (109) *SCÆVOLA* (*Gymnostegia*) *multiflora*; glaberrima, caule paniculato, foliis ovalibus argutè serratis utrinque acutis, spicis elongatis multifloris, bracteis lineari-lanceolatis integerrimis, stylo villosio, fructu costato lævi.
- (110) *Scævola* (*Xerocarpa*) *platyphylla*; pilosa, foliis oblongis apiculatis subserulatis semiamplexicaulibus internodiis multò longioribus, floribus axillaribus solitariis foliis paulò longioribus, corollæ unilabiatae tubo intus lanato, indusio hirsutissimo, stylo glabro.
- (111) *Scævola* (*Gymnostegia*) *squarrosa*; caule erecto paniculato angulato glaberrimo, foliis linearibus denticulatis coriaceis supremis bracteisque squarrosis acuminatis, spicis capitatis mox elongatis, drupis inferioribus distantibus compressis lævibus, stylo pilosiusculo.—Flowers very small, pale blue.
- (112) *LESCHENAULTIA grandiflora*; foliis linearibus distantibus acutis, floribus axillaribus in corymbo dense aggregatis, pedicellis ebracteolatis, sepalis tubo corollæ æqualibus, corollâ extus glabrâ intus stuposâ laciniâ subciliatis, filamentis glabris.

the circumstance of the flower-heads being formed in whorls equal in power to that of the leaves; so that as the latter grew in threes the flower-head would necessarily consist of one flower or of three and one, or of six and one; the first and the third cases he knew, and he conjectured that the second would be one day discovered. Although the Swan River species is not referable to the second case, yet it confirms the correctness of Dr. Brown's views, for the increased number of flowers found in its heads is constantly some new power of three; in some specimens they are $3 \times 4 + 1 = 13$, and in others $3 \times 6 + 1 = 19$; and to this I perceive no exception.

Dryandras abound. In addition to *D. floribunda*, *nervosa*, *bipinnatifida*, and the elegant *D. Frazeri*, whose leaves are divided into fine awl-shaped lobes, there are the following new ones; viz. *D. favosa*,¹⁵⁵ a species near *D. armata*, but the leaves have no hairs in their lacunæ, except when very young, the flower-heads are much smaller, and the stigma is obtuse, not subulate; *D. carduacea*,¹⁵⁶ a charming species, with leaves like those of a *Carthamus*; *D. stuposa*,¹⁵⁷ a plant near *D. formosa*, and quite as handsome; *D. nobilis*,¹⁵⁸ a most splendid plant in the way of *D. longifolia* and *tenuifolia*, with leaves from a foot to a foot and half long; and finally *D. proteoides*,¹⁵⁹ which has much the look of a Cape *Protea*.

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- (155) *Dryandra favosa*; foliis pinnatifidis nitidis adultis utrinque glaberrimis floralibus tantum basi villosis: lobis triangularibus planis pungentibus subtus altè lacunosis: pilis citissimè deciduis, ramulis tomentosis, calycis apice glabro, stylis basi villosis, stigmate tereti obtuso.
- (156) *Dryandra carduacea*; ramis pubescentibus, foliis lanceolatis subtus niveo-tomentosis suprà glabris spinoso-dentatis planis versus basin spinoso-pinnatifidis, involucri glabriusculo floribus duplò brevioribus: foliolis exterioribus angustis triangularibus interioribus elongatis ciliatis, calycibus sericeis, stylo basi glabro, stigmate fusiformi subungulato obtuso.
- (157) *Dryandra stuposa*; ramis villosis, foliis elongato-linearibus semipinnatifidis subtus niveis venosis lobis isoscelo-triangularibus mucronatis margine leviter revolutis, involucri tomentoso patulo floribus multò brevioribus: foliolis interioribus intùs glabris striatis, calyce lanato apice truncato stuposo ferrugineo, stigmate sulcato obtuso.
- (158) *Dryandra nobilis*; ramis villosis, foliis elongato-linearibus subtus cinereis tomentosis suprà glabris subsessilibus: lobis aequaliteri-triangularibus mucronatis decurrentibus margine revolutis subtus 3-5-nerviis, involucri lanato: foliolis exterioribus lineari-lanceolatis serratis foliaceis interioribus inermibus floribus triplò brevioribus, calyce sericeo apice barbato, stylo basi glabro, stigmate tereti obtuso sulcato.
- (159) *Dryandra proteoides*; foliis elongato-linearibus subsessilibus semipinnatifidis subtus niveis venulis nudis reticulatis: lobis rectangulo-triangularibus

Mr. Frazer has reported the existence of a plant he referred to *Banksia grandis*, with a trunk fifty feet high, and frequently more than two feet and a half in diameter, occupying the barren hills on the banks of the river, at Point Frazer; but as I have seen no specimens of the plant, I do not know whether he determined the species rightly or not. It is however certain that *B. Menziesii*, a very noble species, is found here, together with *B. prionotes*,¹⁶⁰ allied to *B. æmula*, and *B. Aquifolium*,¹⁶¹ a new instance of the *Isostylis* division, with very much the look of a *Dryandra*.

Of *Isopogon* and *Petrophila*, two genera perhaps better united, there are many interesting species, especially *I. sphærocephalus*,¹⁶³ so like *P. linearis* that the one may be mistaken for the other; *P. seminuda*,¹⁶⁶ a fine plant with

decurrentibus mucronatis margine revolutis, involucri nudo pubescente: foliolis extimis ovatis intimis e latâ basi linearibus elongatis apice tomentosis floribus duplò longioribus, calycis laciniis filiformibus glabris, stylo basi glabro, stigmate tereti angulato obtuso.—An Hemiclidiæ species?

- (160) *BANKSIA prionotes*; ramis petiolisque tomentosis, foliis lato-linearibus elongatis truncatis serratis subtus reticulatis secus costam pubescentibus lacunis albo-lanatis: dentibus æquilateri-triangularibus, calycibus lanatis, stylo pone apicem constricto tum in stigma sulcatum subconicum expanso, strobilis sphæroideis.

- (161) *Banksia (Isostylis) aquifolium*; foliis cuneiformibus spinoso-dentatis glabris basi integerrimis subtus obsolete lacunosis, ramis villosis, strobilis brevissimis lanatis, calycibus sericeis apice glabris.

- (162) *Banksia cylindrostachya*; ramulis tomentosis, foliis elongato-linearibus truncatis serratis supra lævibus nitidis subtus niveis tomentosis reticulatis basi angustatis integerrimis, amento cylindræo terminali foliis obvallato, calycibus glabris, stigmate parvo tereti sphacelato.

- (163) *ISOPOGON sphærocephalus*; ramis tomentosis villosis, foliis lato-linearibus falcatis utrinque striatis sericeis, strobilis terminalibus sphæricis squamis lanatis apice calvescentibus, calycis tubo basi glabro apice crispato-barbato, stigmatis articulo superiore glabro subulato apice dilatato excavato: inferiore brevior stuposo.—*Petrophilæ* lineari simillimus.

- (164) *Isopogon cornigerus*; ramulis tomentosis, foliis sericeis teretibus exsulcis tripartitis laciniis divaricatis mucronatis lateralibus bilobis petiolo brevioribus, capitulo sessili terminali squamis lanatis, calycibus hirsutis, stigmatis articulo superiore subulato apice dilatato inferiore stuposo æquali.

- (165) *Isopogon scaber*; ramulis tomentosis, foliis planis scabris cuneatis in laciniis lineares canaliculatas altè fissis vel biternatis, strobilis sphæricis sessilibus axillaribus: squamis ovatis acutis apice reflexis glabris, calycibus glaberrimis, stigmate elongato attenuato articulis æqualibus inferiore stuposo.

- (166) *PETROPHILA seminuda*; ramis glaberrimis coloratis, foliis teretibus levissime sulcatis biternatis pungentibus, strobilis terminalibus sessilibus: exterioribus parvis ovatis glabris interioribus ovatis lanatis apice calvis, calycibus glaberrimis, stigmatis fusiformis articulo superiore pubescente.

yellow flower-heads; *P. biloba*, whose branches are sometimes covered for six inches together with feathery flowers; and *P. heterophylla*,¹⁶⁷ a very graceful plant. Another species, *P. brevifolia*,¹⁶⁸ has flowers which, when infused in hot water, give out so brilliant a yellow colour that it is worth examination as a probable source of a dyeing material.

The *Persoonias* are plants of little beauty; *P. Frazeri* is the handsomest; *P. macrostachya*,¹⁷² like *Petrophila brevifolia*, seems to possess dyeing properties that deserve investigation.

Of *Hakea* the species are numerous, and generally by no means worth cultivation, *H. ruscifolia* being the only one

- (167) *Petrophila heterophylla*; ramis glabris, foliis elongato-linearibus obtusis apiculatis basi longè angustatis utrinque striatis simplicibus v. 2-3-partitis, strobilis ovalibus axillaribus sessilibus: squamis ovatis obtusis nitidis glabris, calycibus sericeo-tomentosis, stigmatibus glabri articulo inferiore angulato superiore subulato multò majore.
- (168) *Petrophila brevifolia*; ramulis glabris, foliis uncialibus teretibus exsulcis apice spinosis, strobilo terminali ovato sessili squamis glabris: exterioribus linearibus acuminatis interioribus ovatis acutis, calycibus tomentosis, stigmatibus articulo superiore barbato inferiori glabro angulato æquali.
- (169) *Petrophila juncifolia*; ramulis glabris, foliis teretibus longissimis exsulcis apiculatis, strobilis terminalibus ovatis subsessilibus squamis glabris: exterioribus linearibus acuminatis interioribus ovatis acutis, calycibus tomentosis, stigmatibus articulo superiore barbato inferiore glabro angulato multò longiore.
- (170) *Petrophila glanduligera*; partibus omnibus junioribus villosis sericeis, foliis sessilibus semiteretibus bipinnatis laciniis pungentibus exsulcis lateralibus minimis 3-4-partitis superiorum lobis 3-partitis, strobilis subglobosis pedunculatis foliis longioribus: squamis basi tomentosis sursùm glabris, calycibus hirsutis sepalis apice glandulam subulatam nudam gerentibus, stigmate fusiformi inarticulato pubescente.
- (171) *Petrophila intricata*; ramulis sericeo-villosis, foliis teretibus levitè sulcatis bipinnatis petiolo flexuoso laciniis trifidis simplicibusque pungentibus, strobilis terminalibus et axillaribus subglobosis: squamis sericeis calvescentibus, — *P. serruriæ* affinis.
- (172) *PERSOONIA* (*Sacculigera*) *macrostachya*; ramis pube brevi tomentosis, foliis filiformibus subtus sulcatis floralibus brevissimis, floribus solitariis axillaribus pedunculis tomentosis, calycibus pilosis hinc saccatis, antheris obtusis, ovario glabro stylo nullo.
- (173) *Persoonia Drummondii*; ramulis pubescentibus, foliis falcatis lineari-lanceolatis elongatis aversis basi angustatis glandulosis, floribus solitariis, pedunculis calycibusque tomentosis, antheris linearibus obtusis, ovarii stipite articulo. — *P. falcatæ* affinis.
- (174) *Persoonia Laureola*; undique glaberrima, foliis latè ovalibus basi angustatis obtusis venosis, calycibus apice muticis minutissimè pubescentibus, ovarii stipite inarticulato, stigmate dilatato.

which is at all beautiful when in flower; the prickly and singularly formed leaves of some of them, especially of *H. cristata*, *glabella*, *undulata*, and *triformis*¹⁷⁵ give them a neat but strange appearance.

Few of the *Grevilleas*, of which there are many species, are of much beauty; *G. Thielemanniana*, lately introduced by Baron Hugel, is however a magnificent plant, with large clusters of rich crimson flowers; *G. bipinnatifida* and *quercifolia* are striking species; *G. brachyantha*,¹⁸⁰ a plant related to the last-mentioned species, seems to have purple flowers; and *G. eriostachya*,¹⁸¹ nearly allied to *G. concinna*, with spikes from five to six inches long, and yellowish linear leaves, is an object of considerable beauty.

Of *Adenanthos*, whose only beauty is in the leaves, which almost hide the flowers, *A. sericea* and *A. barbiger*¹⁸² are met with in the Colony. In the latter, and also in *A.*

(175) *HAKEA triformis*; glaberrima, foliis cordato-amplexicaulibus spinoso-dentatis nunc subrotundis nunc basi dilatatis in laminam oblongam angustatis nunc denique obovatis basi vix dilatatis, stigmatibus circulari depresso.—*H. amplexicauli* affinis, sed glaberrima foliis nunquam cuneatis.

(176) *Hakea cyclocarpa*; ramis coloratis glaberrimis, foliis oblongo-lanceolatis obtusis planis basi angustatis subaveniis integerrimis lobatisque, calycibus sericeis, folliculis cyclicis compressis muticis.

(177) *Hakea mixta*; ramulis filiformibus rigidis glabris, foliis glabris aliis oblongis obtusis petiolatis concavis aveniis aliis teretibus mucronatis exsuleis, calycibus villosissimis, folliculis angustis ovalibus compressis muticis.

(178) *Hakea pilulifera*; ramulis sericeis, foliis subtus tomentosis aveniis inferioribus oblongis margine revolutis superioribus teretibus subtus sulcatis mucrone sphacelato, capitulis numerosissimis axillaribus, calycibus stylisque hirsutis, stigmatibus glabro capitato hinc truncato medio apiculato.

(179) *Hakea tricuris*; ramis glaberrimis, foliis teretibus tripartitis: laciniis pungentibus æqualibus leviter sulcatis petiolo longioribus, calycibus villosis, stylo glabro, stigmatibus depresso subtetragono.

(180) *GREVILLEA brachyantha*; glauca, ramulis sericeis, foliis petiolatis coriaceis reticulatis rigidis marginatis oblongis sinuato-angulatis vel pinnatifidis spinosis, racemis terminalibus brevibus cylindricis quaquaversis, bracteis membranaceis cucullatis ciliatis deciduis, calycibus glabris, ovario longè stipitato, stylo clavato, stigmatibus depresso circulari.

(181) *Grevillea (Lissostylis) eriostachya*; ramis tomentosis, foliis linearibus longissimis striatis subpubescentibus subtus bisulcatis, spicis terminalibus elongatis secundis calycibusque apice lanatis, ovario lanato, stylo glabro, stigmatibus depresso dilatato.

(182) *ADENANTHOS barbiger*; ramis villosis, foliis oblongis oblongo-lanceolatis sessilibus obtusis pilosis triplinerviis venosis, floribus axillaribus solitariis pedunculatis, involucribus patulis villosis, calycibus pilosis apice barbatis, anthera unica sterili.

obovata, and probably *cuneata*, one of the anthers is abortive, a circumstance which approximates the genus to *Conospermum* and *Synaphea*; but in *A. sericea*, *terminalis*, and perhaps the other filiform-leaved species, the anthers are all fertile.

It is not a little remarkable that in so diversified an order as this, scarcely any tendency to vary from the small number of types of structure recognized thirty years since by Dr. Brown should be discoverable; there is nothing whatever among the numerous undescribed species from Swan River which requires the establishment of a new genus, with the solitary exception of *Manglesia*. That genus was named by Endlicher in compliment to Captain James Mangles, R.N. and Robert Mangles, Esq. his brother, to whose exertions the country owes the greater part of the plants as yet introduced from this colony into our gardens; and it appears to be well distinguished from *Grevillea* by the style being thickened in a very remarkable manner a little below the stigma, while the stipes of the ovary is unusually long. Three species only are yet known; all from Swan River, namely *M. tridentifera*, *vestita*, and *glabrata*,¹⁸³ all small shrubs with three-lobed or trident-shaped leaves, and numerous clusters of small flowers seated on filiform stalks; but with regard to the two *Grevilleas* which Brown calls *Conogyne*, and which Endlicher is inclined to refer to *Manglesia*, it does not appear to me certain that either of them belongs to it, and *G. triternata* certainly does not.

MISCELLANEOUS EXOGENS.

There are no other orders of Exogens sufficiently remarkable, as to the proportion they bear to the rest of the Flora, to require especial notice; but there are several genera belonging to different orders, concerning which it is desirable to make a few observations.

Of the beautiful genus *TETRATHECA* there are many species, all apparently peculiar to the colony; and, what is curious, belonging to the pentamerous division of the genus.

(183) *MANGLESIA glabrata*; undique glaberrima, foliis cuneatis triplinerviis apice trifidis lobis triangularibus pungentibus, racemis laxis multifloris foliis longioribus, apicibus calycum sphaericis.

Of these *T. viminea*¹⁸⁴ has long smooth slender branches, slightly covered with smooth ovate whorled leaves, and bright purple flowers drooping from the end of the branches; *T. rubriseta*¹⁸⁵ is a bush loaded with purple or rose-coloured flowers, and often clothed with bright red hairs; *T. nuda*¹⁸⁶ is a naked plant, looking like a rush when out of flower, but producing a great quantity of most brilliant crimson blossoms; *T. hirsuta*¹⁸⁷ and *pilifera*¹⁸⁸ are also pretty shrubs, but not to be compared with the others for gay appearance. Most of them would be great acquisitions to our gardens.

Four or five species of COMESPERMA are met with, one of which seems undistinguishable from the blue-flowered twining *C. volubilis* of the south coast; and another is the beautiful *C. conferta*, Lab., an herbaceous plant, or under-shrub, clothed with narrow rigid leaves, and loaded with erect racemes of violet flowers, succeeded by the curious spathulate emarginate fruit of the genus.

Of BRASSICACEÆ only two genera have been remarked in a wild state; the one *Lepidium*, the other *Stenopetalum*; the latter consists of three or four species, with long spirally twisted petals, but they are none of them of any Horticultural interest.

A few STACKHOUSIAS are met with, but they are species of no beauty; any more than the singular genus *Triptero-coccus*, with its triple-winged sharp-pointed fruit, which seems peculiar to this locality.

There is a suffruticose VIOLACEOUS plant, with narrow

- (184) *TETRATHECA viminea*; glabra v. basi caulis subpilosa, foliis ovato-oblongis rotundisve verticillatis sparsisque internodiis multò brevioribus, floribus pentameris.
- (185) *Tetratheca rubriseta*; ramis pubescentibus nunc pilis rubris hispidis, foliis lineari-oblongis revolutis supra scabris subtùs tomentosis, pedunculis axillaribus corymbosis aculeatis setosis glaberrimisve, antheris scabris longè rostratis, floribus pentameris.
- (186) *Tetratheca nuda*; glaberrima, ramis junceis apice abortientibus, foliis linearibus deciduis plurimis deficientibus, pedunculis sparsis glabriusculis corollæ longitudine, petalis obovatis, floribus pentameris.
- (187) *Tetratheca hirsuta*; ramis tomentosis nunc setosis, foliis oblongis sparsis oppositisve subtùs tomentosis suprâ hispidis, pedunculis setosis scabrisve, floribus pentameris.——Near *T. rubriseta*; flowers pink.
- (188) *Tetratheca pilifera*; ramis pubescentibus setosis, foliis verticillatis ovatis grossè dentatis utrinque glabris: dentibus setigeris, pedunculis glabris foliis paulò longioribus, floribus pentameris.——Flowers dark purple.

entire leaves, and rather handsome violet and white flowers on long erect peduncles, called by Endlicher *Pigea glauca*; and another downy small blunt-leaved species with white flowers, probably referable to the same genus.

Many *Dilleniaceous* plants occur, together with two species of *Clematis*, a *Ranunculus* (*Colonorum*, Endl.), and several *Apiaceæ* of singular but not beautiful forms; there is also *Pelargonium littorale*, an uninteresting species figured in Hugel's *Archiv* (t. 5), an *Acæna*, two *Plantagos*, a *Myriophyllum*, and a couple of *Boraginaceous* plants, resembling *Myosotis*. To these must be added the singular genus *Diplopeltis*, of which a plate and full account are given in the *Botanical Register* for 1839, t. 69.

Nuytsia floribunda (Tab. IV.), a beautiful shrub, with very large thyrses of bright orange-coloured flowers, has already been mentioned (p. iv). It is a singular instance of a plant belonging to the parasitical order LORANTHACEÆ growing upon the ground. In a manuscript note, communicated to me by Mr. Allan Cunningham, it is stated to flower in the summer months (December and January), and such is the abundance of the orange-coloured blossoms, that the Colonists at King George's Sound compare it to a tree on fire; hence it has gained the name of "Fire tree." A second species (*N. ligustrina*, A. C.) was found by Mr. Cunningham in 1817 in the more arid parts of the Blue Mountains west from Port Jackson; he tells me it forms a very bushy shrub, three feet high, and flowers usually in the spring of the Colony (October). The only other species of the same order, yet found, is a species of *Loranthus*, growing parasitically upon the "Black Wattle."

Of LOBELIACEÆ there are only three of any interest for their beauty, and we already possess them in our gardens. *L. heterophylla* and *ramosa*, the latter a most variable plant, are now common; but the third, *Isotoma Brownii*, is extremely rare, although its great beauty would render it a most ornamental plant. The figure of it under the name of *Lobelia hypocrateriformis* in the *Botanical Magazine*, fig. 3075, was taken from a starved specimen, and gives no idea of its appearance. In its native state the stem is as thick as a swan's quill, one and a half to two feet high, and in one of my specimens has above forty flowers all open at once; the colour in the *Botanical Magazine*, viz. a rich violet

with a crimson eye, like *Phlox Drummondii*, seems to be correct.

Among MONOPETALOUS EXOGENS not yet noticed, there are but few remarkable plants. *Anthotroche pannosa*, Endl., is a singular shrub, buried in wool, from among which the deep purple flowers peep forth. *Mallophora globiflora*, Endl., bears little balls of wool, studded with the points of its white flowers; the style of this plant is certainly divided into two deep filiform lobes, and is not entire as it is described. Of *Hemiandra*, a genus of labiate, herbaceous, or half-shrubby plants, with ribbed pungent leaves and purple flowers, of which one (*H. rupestris*) has been introduced by Baron Hugel, there are several handsome species; *Hemigenia*, another genus of the same natural order, is also met with; together with *Atelandra*,¹⁸⁹ a new genus, differing from both these in its calyx and in habit. Two species are known, with hoary leaves and apparently purple flowers; of which *A. incana* (Tab. V. A) seems the finest. Two species of the rare genus *Halgania* have been sent home, both different from those recently described by Endlicher; one of them, *H. cyanea*,¹⁹¹ is a hispid plant, perhaps an annual, with axillary blue flowers on long stalks, but of no beauty; the other, *H. corymbosa*,¹⁹² is a brilliant herbaceous plant, with long-stalked terminal corymbs of purple flowers.

Of APETALOUS EXOGENS the greater number belong to *Pimelea* and *Trichinium*; but, with the exception of *T. Manglesii*, *Stirlingii*, and *alopeкуроideum*, few of the latter genus are of much beauty, and I find but one *Pimelea* which pro-

(189) *ATELANDRA* (*Lamiaceæ*). Calyx bilabiatus, mollis: labio superiore 2-, inferiore 3-dentato. Corolla tubo brevi, limbi labio superiore latiore emarginato, inferioris 3-partiti laciniâ intermediâ majore concavo. Stamina 4; inferioribus longioribus. Antheræ glabræ, loculo altero ascendente pollinifero, altero descendente casso. Styli laciniâ superiore minimâ.

Atelandra incana (Tab. V. f. A); foliis oblongis incanis sericeis, floribus axillaribus solitariis.

(190) *Atelandra polystachya*; foliis oblongo-lanceolatis tomentosis subtus venosis, spicis axillaribus imbricatis, filamentis basi villosis.

(191) *HALGANIA cyanea*; hispido-pilosa, foliis oblongo-linearibus serratis, pedunculis axillaribus unifloris foliis longioribus, calycibus adpresso-pilosis: laciniis acutis.

(192) *Halgania corymbosa*; pilosa, foliis cuneato-oblongis grossè serratis basi integerrimis, corymbis pedunculatis multifloris, calycibus villosis: laciniis obtusis.

mises to be ornamental; that one, however,¹⁹³ is a noble plant, with spherical heads of pink flowers six inches in circumference, and a compact handsome foliage.

Finally, there is an exogenous plant to which I must particularly allude, in consequence of its very singular structure. This, which seems to be herbaceous, has a round purple stem, clothed near the base with linear striated alternate leaves, and dividing at the top, which is nearly leafless, into a corymbose compact panicle of bright yellow flowers. The calyx is superior and four-toothed; there are four petals with an imbricate æstivation; within these are eight stamens with linear bi-locular anthers; there is no trace of disk; the ovary is one-celled, and has four membranous wings opposite the petals; there are four short erect styles, each with a discoloured rounded stigma, and the ovules are one or two, anatropous, hanging by short funiculi from the apex of the cavity, one on each side of a slender cord which passes from the apex to the base of the cell. Some of these characters are so much those of Combretaceæ, that the genus might appear referable to that order, if its habit were not opposed to such an approximation, which its four styles render still more objectionable, notwithstanding the correspondence of its winged fruit with that of Pentaptera. It may also be compared with the genus *Quinchamalium*, usually referred to Santalaceæ, with which its unilocular ovary and general habit very much agree, especially if we suppose that in the plant under consideration the cord that separates the two pendulous ovules answers to that which bears the ovules at its own apex in *Quinchamalium*; the four distinct styles however, and the absence of a disk, are materially at variance with that genus, although not with some other plants of the same order. It is however among those degenerate forms of Onagraceæ, known by the name of *Haloragææ*, that the most immediate affinity of the plant is probably to be sought, and especially with *Cercodea*, by some authors referred to *Haloragis*; with that genus it corresponds in having a winged

(193) *PIMELEA spectabilis*; foliis oppositis lineari-oblongis acutis sessilibus glaucis ramisque glaberrimis, capitulis sphaericis sessilibus multifloris, calycis limbo sericeo: tubo villosissimo, involucri foliolis ovatis acuminatis coloratis.

fruit, petals similar in form, stamens twice the number of the petals, definite pendulous ovules, and four distinct styles ; but it differs from *Cercodea* and *Haloragis* in the ovary being one-celled in its original structure, and in the æstivation of the corolla being imbricated, not valvate. It is probable that the fruit, when it shall be known, will incline the scale of comparison in favour of *Halorageæ* ; but in the meanwhile this brief discussion sufficiently shews the near relationship that exists between *Quinchamalium*, *Combretaceæ*, and *Halorageæ*, notwithstanding the distance at which the former and two latter are placed in the artificial divisions of the Natural System. I propose to name this very curious and interesting genus *Loudonia*,¹⁹⁴ as a tribute to the eminent services rendered to Horticultural Botany by John Claudius Loudon, Esq. author of the *Arboretum Britannicum*, and of many other valuable works well known in every part of the civilized world. *Haloragis cordigera*, Fenzl, and probably *H. scoparia* of the same author, the former of which has two pairs of ovules hanging down from the apex of a single cell in the ovary, and separated, as in the plant under consideration, by a pendulous cord originating between them, may possibly also belong to *Loudonia* ; they certainly have no title to be included in *Haloragis*. The following cut, which represents *Loudonia aurea* in flower, will I trust be the means of procuring it for our gardens, or at all events of securing an abundant supply of dried specimens both in flower and fruit for the use of Botanists.

(194) *LOUDONIA* (*Halorageæ*?). Calyx 4-dentatus, superus, tubo tetraptero, a latere verrucoso. Petala 4, cucullata, æstivatione imbricata. Stamina 8, antheris linearibus. Discus 0. Ovarium 1-loculare : ovulis 2, pendulis, anatropis, filo ab apice loculi oriundo sejunctis ; styli 4 ; stigmata rotundata, discolora, lævia.

Loudonia aurea. Glaberrima ; caule erecto, tereti, sesquipedali, simplici, glauco, discolore, basi foliato, apice nunc aphylo. Folia linearia, alterna, coriacea integerrima. Panicula terminalis corymbosa. Bracteæ superiores petaloideæ, obovatæ, floribus aureis æquales, primariæ foliaceæ aut deficientes.



Fig. 1. represents a flower of *Loudonia aurea*, magnified, after three of the front stamens have been removed.

Fig. 2. is a section of the centre of the ovary, with two stigmas remaining, the two pendulous ovules, and the cord that separates them.

HÆMODORACEÆ.

The West coast of New Holland seems to be the headquarters of this natural order, to which the expression “nullibi copiosæ,” recently applied to it, is no longer applicable; for at the Swan River they seem to form about one-fiftieth of the species. As the order is very little known, and as every addition to it is on that account interesting, it will be as well to notice here all the species of the Colony with which I have any acquaintance.

Of *Phlebocarya* there is one species,¹⁹⁵ a narrow-leaved sedgy plant, with dwarf panicles of small flowers, of no beauty.

Hæmodorum produces three, one of which is perhaps the same as the *H. planifolium* of Port Jackson, and the other

(195) *PHLEBOCARYA lævis*; foliis linearibus ensiformibus longissimis glabris, paniculâ nanâ, sepalis petalisque mox deflexis, ovulis apice alatis.

two new. Of these *H. paniculatum*¹⁹⁶ is about three feet high, with stout branched stems, sparingly clothed with very narrow leaves, and a terminal panicle of rather large flowers, among which are intermixed many coloured bracts; and *H. simplex*,¹⁹⁷ has similar leaves, but is much more dwarf, while its flowers are collected compactly in heads surrounded by broad bracts; both these are deserving cultivation.

Of the singular woolly genus *Tribonanthes*¹⁹⁸ there are four species, all different from *T. australis*; they are plants of no beauty, as far as can be ascertained by their appearance in the form of dried specimens.

Conostylis the most abounds in species, some of which are handsome, but others mere weeds. *C. setosa*²⁰² (Tab. VI. A) has large heads of cream-coloured woolly flowers, externally shaggy, with hairs which are sometimes purple. *C. aurea*²⁰³ is a much handsomer species, with a similar habit,

- (196) *HÆMODORUM paniculatum*; caule simplici stricto, foliis linearibus longissimis basi dilatatis, floribus paniculatis bractea spatulatâ margine membranacea brevioribus, sepalis petalisque medio staminiferis linearibus convolutis æqualibus.
- (197) *Hæmodorum simplex*; caule simplici flexuoso, foliis angustissimis basi dilatatis, capitulis terminalibus solitariis involucreis: bracteis oblongis sessilibus, sepalis petalisque basi staminiferis oblongis acutis æqualibus.
- (198) *TRIBONANTHES longipetala*; caule diphylo apice lanato, floribus corymbosis, bracteis lanceolatis glabris, perianthii foliolis linearibus patentissimis ovario duplò longioribus, filamentis dentatis antherâ brevioribus.
- (199) *Tribonanthes uniflora*; radicibus testiculatis!, caule pubescente diphylo: folio superiore nano margine membranaceo, flore solitario bractea unâ membranacea alterâque foliaceâ supèr lanatâ suffulto, perianthii foliolis lineari-oblongis patulis ovario æqualibus, filamentis subdentatis antherâ multò brevioribus.
- (200) *Tribonanthes variabilis*; caule diphylo apice lanato, floribus corymbosis, bracteis lanceolatis glabris, perianthii foliolis oblongis patulis ovario longioribus, filamentis antheræ subæqualibus dentatis v. petaloideis longioribus.
- (201) *Tribonanthes brachypetala*; caule supra basin diphylo sursùm elongato hirsuto, floribus capitatis, perianthii foliolis reflexis intus glabris ovario brevioribus, filamentis carnosis triquetro-truncatis dentatis antherâ longioribus.
- (202) *CONOSTYLIS setosa* (Tab. VI. A); foliis glabris falcatis margine setosis scapo simplici lanato æqualibus, perianthiis intus lanatis extus villosissimis, filamentis subulatis uniseriatis.—Villi calycis longissimi basi tantùm plumosi.
- (203) *Conostylis aurea*; foliis glabris margine setoso-serrulatis scapo simplici lanato multò longioribus, perianthiis intus glabriusculis extus croceo-lanatis, antheris sessilibus sagittatis uniseriatis.—Villi calycis elongati apice attenuati, basi plumosi.

but flowers of a bright golden yellow. *C. bracteata*²⁰⁴ has smaller heads, subtended by a leafy bract, and they are covered with a coarse, rigid wool; it is very near another plant which answers to Brown's definition of *C. aculeata*, from which it differs in the margins of the leaves being closely serrulated, in its stem not being furnished with short smooth shining scales, and in its smaller flowers subtended by a leafy bract. *C. dealbata*²⁰⁵ is much like the two latter, but its flowers are almost gyrate rather than capitate, and the leaves are hoary. The remainder consist of *C. setigera*, R. Br., and *C. caricina*,²⁰⁶ both small inconspicuous species, with *C. æmula*,²⁰⁷ which forms sedgy tufts of leaves overtopping the yellow hairy heads of flowers.

Nearly allied to *Conostylis* are two genera hitherto undescribed. The first, which may be called *Blancoa*,²⁰⁸ has a large tubular perianth with an erect limb, and plaits between the segments, included subsessile anthers, and a bony three-valved capsule which is nearly superior, and bears the placenta on the dissepiments; this is a fine showy plant, with

(204) *Conostylis bracteata*; foliis glabris margine densè setulosis scapo furfuraceo mono-di-phyllo æqualibus, capitulis bractea foliaceâ canescente brevioribus, perianthiis intus glabris extus aspero-villosis, antheris subsessilibus uniseriatis. — Villi calycis breves rigidi ad apicem usque setoso-plumosi.

(205) *Conostylis dealbata*; foliis incanis ciliatis scapo tomentoso multò brevioribus, racemis capitatis bifidis subsecundis bractea obtusâ longioribus, perianthiis intus glabris extus aspero-tomentosis, antheris subsessilibus uniseriatis. — An *C. candicans*, Endl. ? sed perianth. intus glabrum.

(206) *Conostylis caricina*; foliis linearibus rigidis integerrimis glaberrimis falcatis scapo simplici tomentoso medio monophyllo duplò longioribus, capitulis bracteis longioribus, perianthiis intus glabris extus aspero-tomentosis: laciniis tubo duplo longioribus, staminibus uniseriatis.

(207) *Conostylis æmula*; foliis rectis acuminatis glabris setis longissimis inflexis ciliatis scapo simplici lanato medio monophyllo longioribus, perianthiis intus lanatis extus aspero-villosis: laciniis tubo brevioribus, staminibus biseriatis. — Variat. folio scapi herbaceo elongato setoso et membranaceo glabro; an sp. 2 ?

(208) *BLANCOA*. Perianthium extus tomentosum, ferè inferum, elongato-campulatum: limbo 6-dentato erecto æquali, tubo inter lacinias plicato. Antheræ 6, subsessiles, basi laciniarum insertæ. Capsula nucamentacca, ferè libera, nitida; fundo perianthii persistentis inclusa, 3-valvis; valvis medio septiferis seminiferis stylis apice tantum cohærentibus terminatis.

Blancoa canescens. Acaulis, Barbaceniæ vultu. Folia equitantia, incana, retrorsum falcata, acuminata, scapi longitudine. Scapus palmaris, furfuraceo-tomentosus, pone basin monophyllus, supra medium squamâ unicâ cucullatâ rigidâ uniflorâ instructus, apice bi-triflorus. Flores magni, nutantes, extus pedunculique plumoso-villosi.

the habit of *Barbacenia*, and flowers more than an inch and half long. The second, which I propose to name *Androstemma junceum*,²⁰⁹ is a rushy plant of no beauty, although its flowers are an inch and half long, for they are green and buried among the leaves.

Finally, of the well-known genus *Anigozanthus* there are not only the *A. Manglesii* and *flavida* with their beautiful green and purple varieties, but there is a dwarf species still handsomer than they are, in consequence of the compactness of the flowers and the short neat foliage; this *A. humilis*²¹⁰ would be a handsome addition to our gardens; a figure of it is given at B in Plate VI.

ORCHIDACEÆ.

About sixty species of this interesting order have already been discovered in this Colony; and if we regard either their singular structure, or their beautiful forms, or the fragrance, large size and gaudy colours of many of them, it is impossible to say that they at all yield in interest to the epiphytes of tropical countries. They are however all terrestrial; and there is an opinion that Orchidaceæ of that kind cannot be made to yield to the arts of cultivation. When, however, we consider how many plants are now common of which the same opinion was formerly entertained, and moreover how much beyond the skill of the last race of gardeners is that of the present day, I think it would be discreditable to the art, and a libel upon the science of horticulture, to say that in the cultivation of these plants there are any difficulties which patience and skill ought not to overcome. The great obstacles to encounter in the outset are, 1. to obtain the

(209) *ANDROSTEMMA*. Perianthium extus tomentosum, semisuperum, cylindraceum: limbo æquali sexpartito reflexo. Stamina 6, fauce inserta, æqualia, longè exserta; antheris linearibus rectis. Ovarium 3-loculare, polyspermum: placentis in centro axeos sphaericis; stylus subulatus basi 3-partibilis. Stigma simplicissimum.

Androstemma junceum. Acaulis, radice multicipiti. Folia spithamæa, compresso-teretia, acuminata, erecta, glaberrima. Flores $1\frac{1}{2}$ poll. longi, extus virides, tomentosi, limbi laciniis æquilongis angustissimis reflexis. Pedicelli breves, uniflori, erecti, apice bractæas quasdam membranaceas gerentes.

(210) *ANIGOZANTHUS humilis* (Tab. VI. B); rhizomate cormoideo squamato cyanescente, foliis falcatis hirsutis et glabriusculis scapo simplici lanato multò brevioribus, racemo secundo elongato, perianthii limbo erecto, antheris muticis.

roots in a perfectly healthy condition; and 2. to know exactly what the natural habits are of each particular species. Upon the latter point at least we possess quite information enough to authorize an attempt at their cultivation. In a valuable paper by Mr. James Drummond, in the *Gardener's Magazine*, vol. xiv. p. 425, are many particulars of direct practical bearing upon this question.

It appears that many of the species, such as *Thelymitra*, *Macdonaldia*, *Pterostylis*, *Diuris*, *Prasophyllum*, &c. have roots like those of the English Orchis morio, (fig. 1), and they will require the same kind of management.*

The mode of growth of others is quite different. The greater part of them have the roots extended to a considerable distance, that is, to the depth of several inches, underground, terminated by a bulb, and thickly clothed with numerous dry loose skins. In *Glossodia* (fig. 2 & 2*) Mr.



* For permission to use the accompanying wood-cut, which was executed in illustration of Mr. Drummond's paper in the *Gardener's Magazine*, I am indebted to Mr. Loudon.

Drummond says, that "the bulb is renewed every year in the centre of several layers of bark-like substance, one of which layers is added every year by the decay of the old bulb. If the young bulb is dissected at the time when the plant is in flower, the layer of fibrous substance, which afterwards becomes the covering, is easily perceptible; it terminates in a point, which the following season becomes a root, and another root is produced from the bottom of next year's flower-stalk. In planting these roots the fibrous substance should not be removed, or the plant will not thrive. The layer can be easily traced back for ten or twelve years, and I have no doubt that many of these Orchidaceæ have continued to flourish in half a square inch of earth for ages." "These coated species grow mostly on the exposed sides of hills, where the soil is a strong loam, mixed with a large proportion of gravel, and where their numerous coats must be of the greatest use in protecting their roots *from the excessive heat of the summer sun*. All the time they appear aboveground the weather is seldom warmer than in England in the month of May." Such plants as *Caladenia* (fig. 3 & 3*) deviate a little from this manner of growth, their roots forming knots, analogous to those on the roots of *Arrhenatherum avenaceum*, and ought, Mr. Drummond thinks, to be considered rather as reservoirs of nourishment, to enable the plant to flower and perfect seeds, than as true bulbs or buds. "Young plants may be produced by dividing the roots; but they spring from the joints between the swellings of the root. One of these swellings, or tubers, is produced annually, or more than one when the root becomes forked, as it sometimes does." This description applies only to *Glossodia* and *Caladenia*, the species of all which seem to have the same natural habit.

Another plan of growth is to form a bulb at the end of long woolly roots, as in *Drakæa* (fig 5 & 7), *Caleana* (fig. 4), and *Leptoceras* (fig. 8); and this sometimes takes place in an excessive degree, as is shewn at fig. 6, where *aa* are the new bulbs, and *b* the mother which brought them forth. Mr. Drummond has traced them in one species for more than a foot.

The same collector speaks thus of what he supposes to be a *Diuris*, and which, from the figure given (9), seems to be of that genus; but the description does not apply to it.

He says, "we have a fine showy orchis which propagates freely by the roots, and which I have no doubt would answer well in the open air in England, if the roots were treated like the Persian *Ranunculus*, and kept in a dry warm room in winter. The roots of the flowering plants are about six inches long, and resemble a good deal the roots of *Anthericum Liliastrum*, being thickest at the end farthest from the stem. Two or three are produced annually, and the old ones decay. On rich calcareous soil this orchis grows two feet high, and the flowers are large in proportion, and showy; the colours are orange and purple." Probably the plant intended is *Caladenia longicauda*. (Plate VIII. fig. A.)

To these hints it seems only necessary to add, that the summer heat of the ground in which such plants are found is probably about 80°; and to remind the reader that the land at Swan River is generally springy, so that there must be an abundant supply of moisture to the roots of plants when growing.

One of the finest and most numerous genera is *Thelymitra*, the species of which are stout herbaceous plants, with the habit of the European *Orchis* or *Serapias*, but with much gayer colours and larger flowers. *Th. fusco-lutea*, R. Br., is the only described species which I have seen, all the others being new; of these a figure of *T. villosa*,²¹¹ the most striking

(211) *THELYMITRA villosa* (Tab. VIII. C); folio radicali oblongo apiculato subtus villosulo caulinis linearibus acuminatis glabris, racemo cylindraceo, floribus luteis, cuculli laciniis lateralibus glandulosus recurvis intermediâ denticulatâ emarginatâ.

(212) *Thelymitra stellata*; folio radicali oblongo glabro, racemo cylindraceo, floribus fuscis? stellato-patentibus: laciniis acuminatis, cuculli laciniis lateralibus fimbriatis margine postico pulvinatis villosis: intermediâ carnosâ galeatâ breviori dorso tuberculatâ.

(213) *Thelymitra macrophylla*; folio radicali erecto elongato lanceolato, racemo elongato cylindraceo, floribus purpureis, cuculli laciniis lateralibus parvis stuposus: intermediâ majore fornicatâ glabrâ.

(214) *Thelymitra crinita*; folio radicali oblongo apiculato glabro, racemo cylindraceo, floribus purpureis, cuculli laciniis lateralibus barbatis unguiculatis intermediâ fornicatâ emarginatâ dorso glanduloso-villosâ.

(215) *Thelymitra campanulata*; folio radicali lineari, racemo secundo multifloro, floribus purpureis campanulatis, cuculli laciniis lateralibus subulatis apice barbatis intermediâ tripartitâ dorso glandulosâ.—*T. tigrinæ* aff.

(216) *Thelymitra graminea*; folio radicali lineari, racemo secundo multifloro, floribus purpureis, cuculli laciniis lateralibus stuposus unguiculatis intermediâ fornicatâ integerrimâ glaberrimâ.

species, is given at Plate VIII. C. From these I think it necessary to distinguish those species which, like *Th. flexuosa*, Endl. and *Th. venosa*, R. Br., have the anther incumbent, and not parallel with the stigma. These have in fact been separated by Mr. Gunn, who names the species met with in Van Diemen's Land *Macdonaldia*, after Mrs. Smith, *née* Macdonald, a lady who has examined the Orchidaceous plants of that island with great care, and from whom a most beautiful series of dried specimens has reached me through the good offices of Mr. Gunn. Of two of these with yellow flowers, viz. *M. Smithiana*,²¹⁷ and *antennifera*, there are figures at Plate IX. B & C; much handsomer than either is *M. variegata*, with purple speckled flowers.

Next to *Thelymitra* in point of beauty are the species of *Glossodia*, *Diuris*, and *Caladenia*; among which are numerous species of the most exquisite forms and gayest colours. *Glossodia Brunonis*, Endl., has violet flowers two inches in diameter, spotted with brilliant purple; both it and *G. emarginata*²²⁴ have large roots, enveloped in numerous coarse skins,

- (217) *MACDONALDIA*. Perianthium regulare, patulum. Labellum sessile, foliolis conforme. Columna semiteres triloba, cucullata, laciniis nunc appendiculatis. Anthera terminalis, in stigma incumbens. — Caulis flexuosus, foliosus, apice pauciflorus. (§ 2. *Biaurella*; cuculli lobo medio obsoleto, lateralibus appendiculatis.)

Macdonaldia Smithiana (Gunn mss.); caule unifloro 3-phylo, floribus luteis, sepalis petalisque obtusis, cuculli trilobi glabri laciniis lateralibus nanis. (*Van Diemen's Land*.) Tab. IX. B.

- (218) *Macdonaldia concolor*; caule triphylo subbifloro, floribus luteis, sepalis petalisque obtusis, cuculli trilobi glabri laciniis lateralibus majoribus rotundatis. (*Thelymitra flexuosa*, Endl.)

- (219) *Macdonaldia antennifera* (Tab. IX. C.); caule subtriphylo paucifloro, floribus luteis, sepalis petalisque obtusis, cucullo a tergo appendicibus 2 carnis clavatis emarginatis aucto.

- (220) *Macdonaldia* (*Biaurella*) *variegata*; floribus purpureis, sepalis petalisque linearibus acuminatis, cuculli laciniis lateralibus lanceolatis subcarinatis intermediâ obsoletâ, antherâ carnosâ obtusâ elongatâ loculis brevibus semicircularibus membranaceis.

- (221) *Macdonaldia* (*Biaurella*) *spiralis*; folio radicali spirali caulino solitario ovato, caule unifloro, floribus purpureis, cuculli laciniis lateralibus carnis dolabriliformibus intermediâ obsoletâ, antherâ obtusâ apice papillosâ.

- (222) *Macdonaldia* (*Biaurella*) *cyanea*; caule stricto subbifloro, floribus cyaneis, cuculli laciniis lateralibus apice dentatis intermediâ obsoletâ, antherâ apice trilobâ. (*Van Diemen's Land*.)

- (223) *Macdonaldia venosa*. = *Thelymitra venosa*. R. Br.

- (224) *GLOSSODIA* (*Elytranthe*) *emarginata*; caule unifloro, columnæ alâ integer-

and as sweet as a chesnut, even when dried; they would certainly afford a delicate article of food. Of the genus *Diuris* some, as *D. filifolia* (Tab. VIII. B) and *D. Drummondii*,²²⁵ have yellow flowers, more or less spotted with purple; others, as *D. corymbosa*²²⁸ and *porrifolia*, are almost wholly purple; these flowers have the two anterior sepals narrow and projecting like two tails, while the two lateral petals are broad and spreading like a pair of wings, the back sepal has the form of a bird's head and neck, and the whole resembles something from fairy land upon the wing.

The *Caladenias* are well known to be beautiful plants,

rimâ, appendicibus 2 linearibus truncatis membranaceis, labello oblongo-lineari subemarginato medio geniculado.

(225) *DIURIS Drummondii*; foliis ensiformibus erectis scapo multò brevioribus, floribus flavis secundis, labelli lobo medio unicarinato ovato complicato lateralibus rotundatis integerimis longiore.

(226) *Diuris filifolia* (Tab. VIII. B.); foliis setaceis scapo multò brevioribus, floribus flavis, labelli lobo medio unicarinato ovato complicato lateralibus rotundatis dentatis longiore.

(227) *Diuris luxiflora*; floribus flavis, pedunculis longissimis capillaribus bracteis linearibus canaliculatis duplò longioribus, labelli lobo medio subrotundo basi imâ unicarinato lateralibus multò minoribus margine postico denticulatis.

(228) *Diuris corymbosa*; foliis ensiformibus linearibusque erectis scapo trifloro brevioribus, floribus purpureis subcorymbosis, pedicellis bracteis longioribus, labelli lobis rotundatis subæqualibus intermedio convexo subemarginato basi imâ unicarinato.

(229) *Diuris porrifolia*; foliis lanceolatis linearibusque acuminatis scapo monophyllo brevioribus, pedicellis bracteis foliaceis brevioribus, floribus purpureis, labelli lobis oblongis rotundatis intermedio minore convexo cuneato unicarinato.

(230) § *Eucaladenia*. Sepala et petala subæqualia ringentia, haud producta; Labello seriatim glanduloso tripartito.

CALADENIA marginata; folio radicali oblongo cauli subæquali, sepalis petalisque obtusiusculis, labelli glandulis biseriatis filiformibus conformibus: lobis lateralibus rotundatis intermedio triangulari basi fimbriato apice glandulis marginato, disco nudo.—(K. Geo.'s Sound: Collie.)

(231) *Caladenia ochreatea*; folio oblongo acuto basi ochreâ laxâ truncatâ vaginato caule subramoso breviori, sepalis petalisque obtusiusculis, labelli glandulis biseriatis filiformibus conformibus: lobis lateralibus rotundatis intermedio triangulari acuminato suberispo margine calloso, disco nudo.

(232) *Caladenia unguiculata*; folio lineari caule unifloro breviori, sepalis petalisque obtusiusculis, labelli cuneati longè unguiculati glandulis 4-seriatis ramentaceis infimis majoribus: lobis dentatis lateralibus truncatis intermedio oblongo, disco glanduloso.

(233) *Caladenia mollis*; folio oblongo caule elongato 4-plò breviori, sepalis petalisque acutiusculis, labelli glandulis biseriatis approximatis: lobis lateralibus rotundatis intermedio lanceolato utrinque basi 3-dentato, disco nudo.

but those of Swan River are far more so than those of the South and East coast; the most striking among them are *C. flava*, R. Br., a species with large yellow flowers; *C. sericea*,²³⁶ with large violet flowers; all the section *Pentisea*,²³⁷ whose colours and size vie with those of the gayest African Iridaceæ; and the singular *C. longicauda*,²⁴² of which there is a figure at Plate VIII. A. As microscopical objects, the glands on the species of the section *Calonema*²³⁹ are especially

(234) *Caladenia elongata*; folio lineari-oblongo caule elongato 4-plò breviorè, sepalis petalisque acutiusculis, labelli glandulis biseriatis approximatis: lobis lateralibus oblongis infra apicem dente subsolitario instructis intermedio lanceolato, disco nudo utrinque basi pluri-dentato, antherâ longè mucronatâ.

(235) *Caladenia reptans*; folio oblongo caule unifloro duplò breviorè, sepalis petalisque obtusiusculis, labelli glandulis biseriatis approximatis: lobis lateralibus ovatis obtusis intermedio ovato subdentato omninò eglanduloso.

(236) *Caladenia sericea*; folio oblongo-ovato molliter sericeo caule 1-2-floro pluriès breviorè, sepalis petalisque obtusiusculis, labelli cuneati glandulis minutis 4-seriatis basi maximis carnis: lobis æqualibus integerrimis intermedio disco glanduloso.

(237) § *Pentisea*. Sepala et petala subæqualia patula haud producta; labello indiviso undique glanduloso.

Caladenia gemmata; folio ovato undulato coriaceo caule villosio unifloro aphylo pluriès breviorè, labello subrotundo-ovato acuto glandulis depressis undique tecto. — Flowers purple.

(238) *Caladenia ixioïdes*; folio ovato obtuso scapo bibracteato unifloro ter breviorè, labello oblongo medio constricto apice serrulato glandulis minutis ramentaceo. — Flowers large, yellow.

(239) § *Calonema*. Sepala et petala ringentia longissimè acuminata; labello integro sæpius margine fimbriato.

Caladenia filifera; folio lineari caule duplò breviorè, sepalis petalisque apice filiformibus plumoso-glandulosis, labello ovato-lanceolato obtuso dentato basi integro medio constricto: glandulis biseriatis. — Flowers purple.

(240) *Caladenia denticulata*; folio lineari caule villosio breviorè, sepalis petalisque apice filiformibus plumoso-glandulosis, labello ovato-lanceolato obtuso supra medium denticulato: glandulis biseriatis. — Flowers yellow.

(241) *Caladenia hirta*; folio oblongo caule furcato elato multò breviorè, sepalis petalisque acuminatis, labello oblongo serrato obtuso: glandulis 4-seriatis infimis capitatis.

(242) *Caladenia longicauda* (Plate VIII. A); folio angustè oblongo canaliculato villosissimo caule furcato elato multò breviorè, sepalis petalisque acuminatis glandulosis, labello ovato-oblongo obtuso basi cordato fimbriato ultra medium serrato: glandulis conformibus 4-seriatis versus apicem evanescentibus — Varies in height from one to two feet, and proportionably in the size of the flowers.

(243) *Caladenia discoïdea*; folio oblongo-lineari obtuso villosio caule subbifloro breviorè, sepalis petalisque acutissimis aristatis, labelli ovalis pectinati disco glandulis depressis sine ordine onusto.

deserving of notice. *Leptoceras*,²⁴⁴ regarded by Dr. Brown as a section of *Caladenia*, is composed of plants far less attractive than the genus *Caladenia*, strictly so called.

Besides these *Epiblema grandiflorum*, R. Br., a fine Bletia-like plant with purple flowers, is found; together with *Lyperanthus nigricans* and *suaveolens*, R. Br., which have no pretensions to beauty, but have a very singular appearance with their dingy sad-coloured flowers, and are very fragrant; the two latter seem in no respect different from those of the East coast.

The remainder of the published genera consists of inconspicuous species of *Eriochilus*,²⁴⁷ *Pterostylis*,²⁵² *Prasophyl-*

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- (244) *LEPTOCERAS oblonga*; folio oblongo obtuso, racemo elongato internodiis floribus longipedunculatis longioribus, labelli oblongi apice angustati crispis glandulis 2-seriatis teretibus: infinis fasciculatis.
- (245) *Leptoceras fimbriata*; glaberrima, folio minimo cucullato acuminato, caule stricto tenui 1-3-floro, floribus approximatis, labello pubescente cuneato eglanduloso apice dentibus glandulosis fimbriato.
- (246) *Leptoceras pectinata*; glaberrima, folio ovato acuminato, caule stricto 2-floro, flore inferiore internodio brevior, labello pubescente cuneato eglanduloso apice dentibus glandulosis medio excepto pectinatim marginato.
- (247) *ERIOCHILUS scaber*; folio epigæo coriaceo subrotundo-ovato acutissimo, caule nano unifloro ovario bracteâque oblongâ scabris.
- (248) *Eriochilus tenuis*; folio epigæo membranaceo ovato-oblongo elongato obtuso, caule tenui unifloro bracteâque ovatâ glabris, ovario tomentoso.
- (249) *Eriochilus dilatatus*; folio medio caulis inserto lineari-lanceolato coriaceo basi dilatato, caule paucifloro ovarisque glabris.
- (250) *Eriochilus latifolius*; folio medio caulis inserto lineari-oblongo, caule multifloro apice pubescente, bracteis oblongis ciliatis rachi ovarisque tomentosis, labello subrotundo, sepalo dorsali columnâ multò longiore, antheræ rimâ tomentosâ.
- (251) *Eriochilus multiflorus*; folio medio caulis inserto ovali acuminato, caule multifloro apice pubescente, bracteis oblongis ciliatis rachi ovarisque tomentosis, labello ovali obtuso, sepalo dorsali columnâ paulò longiore, antheræ rimâ glabriusculâ.—Flowers much smaller than in the last species.
- (252) *PTEROSTYLIS vittata*; caule folioso, foliis radicalibus nullis caulinis ovato-lanceolatis, labello bifido fimbriato appendice indivisâ, columnæ alis deorsum acuminatis barbatis.
- (253) *Pterostylis pyramidalis*; caule folioso unifloro, foliis inferioribus ovatis in petiolum angustatis superioribus minoribus sessilibus, labelli laminâ lineari apice paulo latiore, appendice penicillatâ, sepalis lateralibus filiformibus supremi longitudine.
- (254) *Pterostylis barbata*; caule folioso unifloro, foliis ovatis acuminatis imbricatis supremis vaginantibus inflatis, labelli laminâ subulatâ clavatâ barbatâ sub apice nudâ, appendice glabrâ apice denticulatâ, sepalis acuminatissimis.
- (255) *Pterostylis scabra*; caule folioso unifloro scabro, foliis ovato-lanceolatis acuminatis, labelli laminâ apice filiformi clavatâ appendice penicillatâ, sepalorum lateralium acumine filiformi ipsis brevior.

lum,²⁵⁶ *Microtis*,²⁶¹ the names and characters of which are given below, but none of which are at all worth introduction to gardens as objects of ornament.

Of the genus *Caleana*, however, there is one species which, although inconspicuous in appearance, requires to be noticed on account of its remarkable irritability, of which Mr. James Drummond has given an account in the Gardener's Magazine before referred to. He calls this *C. nigrita*,²⁶² one of the most curious of sensitive plants; his description being made without a sufficient acquaintance with the organs of fructification must be remodelled, but was probably intended to be to the following effect. The column is a boat-shaped box, resembling a lower lip; the labellum forms a lid that exactly fits it, and is hinged on a claw which reaches the middle of the column; when the flower opens, it (the labellum) turns round within the column, and falls back, so that, the flower being inverted, it stands fairly over the latter. The moment a small insect touches its point, the labellum makes a sudden revolution, brings the point to the bottom of the column, passing the anther in its way, and thus makes prisoner any insect which the box will hold. When it catches an insect it remains shut while its prey continues to move about; but if no capture is made the lid soon recovers

- (256) *PRASOPHYLLUM giganteum*; ovariis cylindraceis subsessilibus bracteâ acutâ plus duplò longioribus, sepalis acutis lateralibus supernè distinctis basi cohærentibus, labello oblongo-lanceolato undulato, folio dimidium superius caulis brevior.
- (257) *Prasophyllum macrotys*; ovariis cylindraceis subsessilibus bracteâ acutissimâ plus duplò longioribus, spicâ multiflorâ, sepalis acutiusculis lateralibus supernè distinctis, columnæ laciniis lateralibus linearibus antherâ duplò longioribus, folio dimidium superius caulis subæquante.
- (258) *Prasophyllum ovale*; ovariis clavatis bracteâ ovali ter longioribus, sepalis obtusis posticis distinctis labelli longitudine, labelli ovalis supra medium callosi apice obtuso undulato.
- (259) *Prasophyllum gracile*; ovariis pedicellatis bracteâ acutâ ter longioribus, sepalis acuminatis lateralibus basi cohærentibus, labello cordato ovato acuto nudo medio semel undulato, folio caule multo longiore.
- (260) *Prasophyllum parvifolium*; ovariis clavatis, spicâ pauciflorâ obtusâ, sepalis acuminatis lateralibus basi saccatis, petalis conformibus, rostello longissimo setaceo.
- (261) *MICROTIS atrata*; folio basi cucullato caule longiore, spicâ densâ cylindraceâ, sepalis lateralibus oblongis revolutis supremo subrotundo, petalis ovatis acutis, labello oblongo obtuso nudo. — Flores minutissimi atri.
- (262) *CALEANA nigrita*; folio ovato acuminato obtuso basi cucullato, scapo nudo, labelli laminâ lineari tuberculatâ basi subcordatâ apice angustatâ indivisâ.

its position. This plant is rare, and where it does grow is not easily found, its whole appearance being that of charcoal, among which it usually springs up.

Besides these the Colony yields two curious new irritable genera of the Arctusean division of this order; both however small-flowered, and apparently dull-coloured. Of these

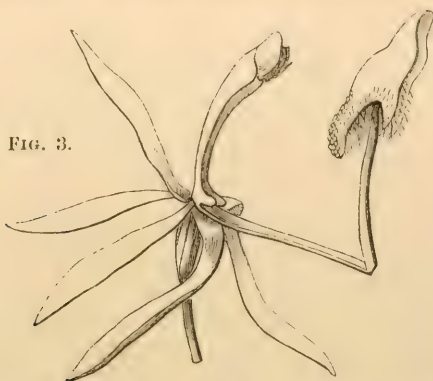


FIG. 3.

*Drakæa elastica*²⁶³ has a single flower placed at the end of a slender smooth erect scape, from twelve to eighteen inches high, and its labellum, which is hammer-headed, and placed on a long arm with a moveable elbow joint in the middle, is stated by Mr. Drummond to resemble an insect suspended in the air, and moving with every breeze. The other plant



FIG. 4.

Spiculæa ciliata.

(263) DRAKÆA. (Arethuseæ). Sepala et petala linearia, conformia, reflexa. Labelli unguis longissimus, medio articulatus; lamina peltata, convexa, cum pede suo mobilis decidua. Columna elongata, clavata, semiteres, basi

is *Spiculæa ciliata*,²⁶⁴ whose rusty flowers when spread open may be compared to long-legged spiders, the lip with a long solid lamina looking like their body, while an appendage at its apex, which is apparently moveable, will not be unlike the head of such a creature.

MISCELLANEOUS ENDOGENS.

Of Endogenous plants not included in the two preceding natural orders the number is either inconsiderable, or the supplies sent home have been very deficient; and, with such exceptions as are about to be named, they are of little interest. A *Xanthorhæa* is spoken of by Frazer, but I have seen no specimens of it. The form most characteristic of the Colony is *Laxmannia*,²⁶⁵ a genus of small heath-leaved shrubs, with capitate white membranous flowers, usually collected in heads upon the end of leafless scapes; of one of these curious, and rather pretty plants, there is a figure at Plate VII. A; some others²⁶⁶ also occur, but they are of no beauty. Two

utrinque auriculata. Anthera terminalis, persistens, loculis approximatis. Rostellum ovatum, acuminatum, convexum.

Drakæa elastica. (Fig. 3.) Radices lanatæ, apice bulbosæ. Folium radicale coriaceum, subrotundum, cordatum. Scapus erectus pedalis, glaber, squamulâ infra medium solitariâ, uniflorus. Labellum basi tuberculatum, crinitum, angustatum, utrinque dente retrorso auctum.

(264) *SPICULÆA* (Arethuseæ). Sepala et petala linearia, conformia, patentia. Labelli unguis elongatus, teres, inarticulatus; lamina linearis, peltata, apice appendice mobili aucta. Columna elongata, arcuata, infra medium semiteres, marginata; superius alata: alis marginantibus, basi liberis falcatis, apice circa antheram in cucullum breve quadrilobum confluentibus: lobis lateralibus longioribus. Anthera terminalis, persistens, loculis approximatis. Stigma meniscoideum.

Spiculæa ciliata. (Fig. 4.) Herba spithamæa, glabra, verosimiliter fusca. Folium radicale coriaceum, cordatum, acuminatum. Scapus medio unisquamatus. Racemus multiflorus, 2-3 poll. longus. Sepala filiformia, spathulata; petala etiam angustiora, haud apice dilatata, 5 lin. longa. Labelli lamina carnea, supra medium affixa, basi angustata ciliata retusa; appendice apicis ovali membranaceâ.

(265) *LAXMANNIA grandiflora* (Tab. VII. A); foliis erectis apice spinosis scapo multò brevioribus, capitulis multifloris basi obtusis.

(266) *Laxmannia squarrosa*; foliis squaroso-recurvis apice setiferis scapo multò brevioribus, capitulis paucifloris basi acutis.

(267) *Laxmannia sessilis*; foliis squaroso-recurvis apice piliferis, capitulis sessilibus foliis brevioribus.

(268) *Laxmannia ramosa*; caule nitido ramoso apicibus tantum folioso, foliis erectis pungentibus scaporum longitudine, capitulis paucifloris sphaericis basi intrusis.

other sets of plants with a singular aspect, and belonging more particularly to the west coast, are *Borya* and *Johnsonia*. Of the former there are two species, *B. scirpoidea*²⁶⁹ (Tab. IX. A) and *B. sphærocephala*, R. Br., little tufted rush-leaved plants, with dense heads of white flowers, supported by stiff leafy bracts; I mention these chiefly for the purpose of remarking that their ovary has been incorrectly described as trilocular; it is undoubtedly unilocular with three parietal placentæ, and the genus itself appears to belong to Xyridaceæ. Of *Johnsonia*, with its hop-like heads, there are two very pretty species, namely, *J. hirta*,²⁷⁰ Plate VII. B; and *J. pubescens*, both much smaller than the *J. lupulina* of the South coast.

All the preceding, although very striking plants, in consequence of their unusual forms, are of no moment to the searcher after ornamental flowers; but of the latter there are a few that are very handsome, and several which deserve to be introduced. In the first place there is that most beautiful plant *Calectasia cyanea*, R. Br., a bush like an *Andersonia*, with quantities of large blue flowers with deep orange-coloured anthers; this is the handsomest *Endogen* in the Colony. Next to this must be placed *Stypandra grandiflora*,²⁷² an erect plant, with leafy stems one and half to two feet high, loaded with large paniced blue flowers; and several *Cæcias*,²⁷³ all of which, except *C. micrantha*, are beautiful. Of other *Liliaceæ* the most worth notice are a

(269) *BORYA scirpoidea* (Tab. IX. A); acaulis cæspitosa, foliis erectis scapo brevioribus, capitulo turbinato bracteis brevioribus.

(270) *JOHNSONIA hirta* (Tab. VII. B); foliis scapoque subæqualibus incano-pubescentibus.

(271) *Johnsonia pubescens*; foliis glaberrimis scapo pubescente longioribus.—This is about the size of *J. hirta*, and consequently not one-third as large as *J. lupulina*.

(272) *STYPANDRA grandiflora*; foliis omnibus distinctis estriatis ovato-lanceolatis acuminatis glaucis basi vaginantibus simplicibus, floribus paniculatis nutantibus, pedicellis nudis.

(273) *CÆSIA hirsuta*; caule ancipiti simplici, floribus erectis cymosis, pedunculis sepalisque hirsutis, foliis linearibus acuminatis.

(274) *Cæsia versicolor*; foliis radicalibus binis angustè oblongis scapo aphyllis corymboso paniculato duplò brevioribus, floribus erectis.—Flowers pink, changing to deep blue.

(275) *Cæsia micrantha*; foliis linearibus erectis scapo longioribus, paniculâ racemosâ, floribus erectis fasciculatis pedicellorum longitudine.

new *Sowerbæa*,²⁷⁶ with pretty pink heads like those of an *Allium*, and several species of *Thysanotus*,²⁷⁷ among which is the fine *Thysanotus triandrus*, R. Br.; of the latter genus some are already in gardens, a few others are named below, and there are several less deserving to be mentioned.

Of *Melanthaceæ* there are two new species of *Burchardia*,²⁸⁰ besides *B. umbellata*, R. Br., *Philydrum pygmæum*, R. Br., *Cartonema spicatum*, R. Br., and an *Anguillaria*, which does not seem different from the *A. dioica* of the East coast; together with several fine species of *Patersonia*,²⁸² among which are *P. lanata* and *occidentalis* of R. Br.

Many species of *Grasses*, *Sedges*, and similar plants have also been sent home, but they have no connection with Horticultural objects.

(276) *SOWERBÆA laxiflora*; foliis scapo subæqualibus, pedicellis floribus duplò longioribus, sepalis petalisque ovatis obtusis, antherarum loculis elongatis.

(277) *THYSANOTUS anceps*; hexandrus, caule paniculato ancipiti aphylo, umbellis terminalibus paucifloris, squamis ovatis foliorum loco.

(278) *Thysanotus asper*; hexandrus, foliis filiformibus scapoque duplo longiore scabris hirsutis, umbellâ pauciflorâ, pedicellis floribus brevioribus.—— Flowers large purple.

(279) *ASPARAGUS micranthus*; caule ramosissimo intricato ramulis divaricatis, floribus minimis solitariis cernuis.

(280) *BURCHARDIA multiflora*; foliis scapi basi cucullatis, umbellâ 20-florâ, pedicellis perisphericis horizontalibus.

(281) *Burchardia congesta*; foliis scapi basi simplicibus radicali longissimo lineari, umbellâ pauciflorâ congestâ, pedicellis florum longitudine.

(282) *PATERSONIA pygmæa*; foliis ensiformibus ciliatis scapo lanato longioribus, spathâ glabrâ carinâ lanuginosâ.——Tota planta 3 poll. alta.

(283) *Patersonia juncea*; foliis linearibus acuminatis glabris scapo sulcato glabro brevioribus, spathâ glaberrimâ.——Palmaris.

EXPLANATION OF THE PLATES.

PLATE I.—*Chrysorhoe nitens*. 1. a flower just expanding, with the bracts about to fall off; 2. a view of an entire expanded flower; 3. an anther; 4. a section of the ovary, with the stamens adhering.

PLATE II.—A. *Verticordia insignis*. 1. a vertical section of a flower without the sepals and petals; 2. a stamen.

B. *Hedaroma latifolium*. 1. a single flower; 2. a section of a part of the upper portion of a flower, seen from within; 4. a stamen; 5. a vertical section of an ovary.

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A SYSTEMATICAL INDEX

TO THE

FIRST TWENTY-THREE VOLUMES

OF

THE BOTANICAL REGISTER.

Those plants marked * are noticed only, not figured, in the work.

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 ——— *pensylvanica*, *Mich.* iii. 247.
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 — *microcarpa*, *Lindl.* xxii. 1846.
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 — *odoratissima*, *Bot. Rep.* xxii. 1885.
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 — *orientalis*, *Lindl.* xxii. 1852.
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 — *tanacetifolia*, *Pers.* xxii. 1884.
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 — *mexicana*, *De Cand.* xxii. 1910.
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- Pyrus salicifolia*, *M. B.* vi. 514.
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 — *salvifolia*, *Decand.* xviii. 1482.
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 — *spuria*, *Decand.* xiv. 1196.
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 — *floribunda*, *Lindl.* xii. 1006.
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Eriobotrya, *Lindl.* xxiii. 1956.
 — *japonica*, *Lindl.* v. 365.
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Amelanchier florida, *Lindl.* xix. 1589.
Hesperomeles, *Lindl.* xxiii. 1956.
 — **cordata*, *Lindl.* xxiii. 1956.
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 — **oblonga*, *Lindl.* xxiii. 1956.
 — **euneata*, *Lindl.* xxiii. 1956.
 — **obtusifolia*, *Lindl.* ib.
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 — *indica*, *Lindl.* vi. 468.
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 — *salicifolia*, *Lindl.* viii. 652.
 — *rubra*, *Lindl.* xvii. 1400.
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Photinia **prunifolia*, *Lindl.*
 — **arguta*, *Walls.*
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 ——— *staurophyllum*, DC. xii. 959.
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 ——— *venulosum*, Lindl. xix. 1574.
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 ——— scintillans, xvii. 1641.
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 ——— Seymouri, xxiii. 1975.
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 ——— indica, *variegata*, xx. 1716.
 ——— indica, *lateritia*, xx. 1700.
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 ——— *var.* roseum,
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 ——— filamentosa, *H. K.* i. 6.
 ——— ardens, *H. K.* ii. 115.
 ——— tumida, *Ker*, i. 65.
 ——— colorans, *Link.* vii. 601.

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- *Cavendishia, *Lindl.* xxi. 1791.
 ——— *nobilis, *Ib.*
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 ——— amenum, *H. K.* v. 400.
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 ——— fuscatum, *Pursh*, iv. 302.
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- Hydrolea spinosa, *Linn.* vii. 566.
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- Stenanthra pinifolia, *R. Br.* iii. 218.
 Sphenotoma capitatum, *Lindl.* xviii. 1515.
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- Primula venusta, *Host.* xviii. 1983.
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 ——— sinensis, *Lindl.*
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 ——— Pallasii, *Lehm.* xi. 896.
 ——— minima, *Linn.* vii. 581.
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- Cyclamen Persicum*, var. *laciniatum*, *Lindl.*
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——— **arctica*, *Hooker*, *lb.*

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- Ardisia odontophylla*, *Wall.* xxii. 1892.
——— *paniculata*, *Roxb.* viii. 638.
——— *lentiginosa*, *Ker*, vii. 533.
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——— *C. candicans*, *Bot. Mag.*
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——— *chrysoides*, *Ker*, iv. 270.
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——— *hederacea*, *Choisy.*
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 ———— revolutum, *Bot. Mag.* iii. 178.
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A

B

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A. LAXMANNIA GRANDIFLORA.

B. JOHNSONIA HIRTA.



A. CALADENIA LONGICAUDA.

B. DIURIS FILIFOLIA.

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